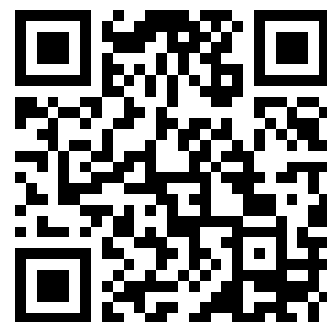

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R E P O R T
ON THE
SCIENTIFIC RESULTS
OF THE
VOYAGE OF S.Y. "SCOTIA"

Meteorological Observations of Scottish National Antarctic Expedition.



Omond House, Scotia Bay, South Orkneys.

Scottish and Argentine Scientific Staffs. The six to the left are the Scottish Party, the five to the right are the Argentine Party. Mr Mossman and Wm. Smith (steward) serving with both Expeditions.

SCOTTISH NATIONAL ANTARCTIC EXPEDITION.

R E P O R T

ON THE

SCIENTIFIC RESULTS

OF THE

VOYAGE OF S.Y. “SCOTIA”

DURING THE YEARS 1902, 1903, AND 1904,

UNDER THE LEADERSHIP OF

WILLIAM S. BRUCE,

LL.D., F.R.S.E.

Volume II.—PHYSICS.

PART I.—METEOROLOGY, by R. C. MOSSMAN, F.R.S.E.

„ II.—MAGNETISM, by CHARLES CHREE, Sc.D., F.R.S.,
and R. C. MOSSMAN, F.R.S.E.

„ III.—TIDES, by Sir GEORGE H. DARWIN, K.C.B., F.R.S.

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EDITORIAL NOTE.

PARTS I., II., and III. of Volume II. are the first of the Scientific Reports of the Scottish National Antarctic Expedition to appear in book form. They contain the Meteorological, Magnetic, and Tidal results of the Expedition. It has been thought inadvisable to keep back this portion of Volume II. till the rest was ready, in view of the extremely important nature of Mr MOSSMAN's monograph on the Meteorology of the "Scotia," and because the Council of the Royal Society of Edinburgh, without questioning the merits of the paper, felt themselves, on financial and other technical grounds, unable to pass that monograph through the Society's Transactions, as they have done in the case of several of the biological contributions.

In Meteorology the Scottish Expedition was particularly strong, for, as director of that department, no better man could have been secured than Mr ROBERT C. MOSSMAN. Mr MOSSMAN was in charge of the principal Meteorological Station in Edinburgh from 1886 to 1900, and acted frequently as interim-superintendent at Ben Nevis Observatory. He also spent the winter 1901-1902 near the head of Glen Nevis, studying the meteorology of the Glen, especially in relation to Föhn winds, having the advantage both of the Summit and Low Level Ben Nevis Observatories to aid him in that research.* His memoir on the Meteorology of Edinburgh, in the Transactions of the Royal Society of Edinburgh, 1896-1902, will ever remain a monument of masterly workmanship. Mr MOSSMAN was supported by two other trained meteorologists, namely Mr D. W. WILTON and the leader of the Expedition, who had both had long experience at the Summit, Mid, and Low Level stations of the late Ben Nevis Observatories. The scientific staff, Captain ROBERTSON and the officers of the "Scotia" also rendered valuable assistance. The "Scotia" Meteorology has furthermore the very great advantage that the results have been worked up by the man who directed operations in the field.

Mr MOSSMAN also undertook the Magnetic work, and the Expedition is indebted to Dr CHARLES CHREE for his able discussion of that subject. Dr CHREE has praised in the highest degree the excellence of Mr MOSSMAN's work in this department. Captain THOMAS ROBERTSON, master of the "Scotia," superintended the Tidal Observations, being assisted by the scientific staff and officers of the ship. These observations were placed

* Since that time the Observatories have been closed because the British Government refused to adequately finance them.

EDITORIAL NOTE

in the hands of Sir GEORGE DARWIN, whom we have to thank cordially for discussing this important and difficult section of the work.

Thanks are due to the Royal Society of London for passing the Magnetic and Tidal discussions through their Transactions, and paying the primary cost. In return for this, the Scottish Expedition has allowed these reports to appear in the Scientific Reports of the "Discovery," as an addition to the valuable magnetic work done by that Expedition, which was specially fitted out for that research. The kindness, courtesy, and valuable help of Sir ARCHIBALD GEIKIE in the publication of the Magnetic and Tidal reports are also gratefully acknowledged.

Acknowledgment is due to Messrs WILLIAM BLACKWOOD & SONS for their courtesy in lending some of the blocks for the illustrations.

When the "Scotia" put into Buenos Aires for refitting, I approached the Argentine Government to see if they would continue the work of the Scottish Expedition, offering to hand over to them Omond House and its fittings, some stores, and to lend any instruments that could not be got together in so short a time. I also offered a passage on board the "Scotia" to any scientists they might choose, and to put the station into good order. This offer was accepted by President ROCA and Mr WALTER G. DAVIS (of the Oficina Meteorologica, Argentina). I furthermore offered, in order to enhance the work, to place the services of Mr ROBERT C. MOSSMAN at the disposal of the Argentine Republic, should he be agreeable to continue in charge of the station. All this was successfully arranged, and to-day we have as the result the most valuable piece of meteorological and magnetic research going on that has yet been done in the Antarctic Regions, owing to the enthusiastic way in which that energetic South American Republic took up the suggestion that they should follow up the work initiated by the Scottish National Antarctic Expedition.

Before, and more especially since, the departure of Mr MOSSMAN to take up an appointment in the Meteorological Office of the Argentine Republic, Mr R. T. OMOND, one of the most earnest supporters of the Scottish Expedition from its initiation, has given us his constant and valuable help in revising proofs, and in giving that unique advice which only one, who has been long connected with meteorology at institutions such as the Ben Nevis Observatories and the Scottish Meteorological Society, is able to give. I gratefully acknowledge his services, and cordially thank him.

WILLIAM S. BRUCE,
Editor.

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PART I.—METEOROLOGY.

METEOROLOGICAL RESULTS

OF THE

SCOTTISH NATIONAL ANTARCTIC EXPEDITION.

BY ROBERT C. MOSSMAN, F.R.S.E.

THE meteorological observations taken on board the "Scotia" comprised the pressure, temperature, and humidity of the air, the direction and velocity of the wind, the amount, form, and motion of the clouds, the amount, direction, and temperature of the sea-surface, and the quantity and nature of the precipitation. Other observations, such as the amount of solar and terrestrial radiation, thickness of the rainband in the spectrum of sunlight, and phenomena of occasional occurrence, were also carefully noted.

The period covered by the observations extends from 17th November 1902 to 15th July 1904. The scheme of work comprised the taking of eye observations at every hour night and day during the time the Expedition was south of 30° S., while at other times readings were usually made every four hours. When in port fewer observations were taken.

The instruments were verified at Kew Observatory before the departure of the Expedition, and as regards the barometers and thermometers, frequent inter-comparison was made. Many of the instruments were ordered, and some lent by the Meteorological Council through its Secretary, Dr W. N. SHAW, F.R.S., who thus rendered valuable aid in the equipment. Special mention is also due to Mr JOHN ANDERSON for supplying the kites, motor engine, and other tackle connected with the aerial work, and for his personal superintendence during the kite flights at Leadburn and on board the steam yacht "Mermaid" before our departure. Our indebtedness to the Directors of the Millport Marine Station in this connection must also be mentioned.

During the Expedition the observations were organised and superintended by Mr BRUCE and myself, and the readings made by the Leader, the Captain, and the scientific staff. After my return in 1905 from Laurie Island, South Orkneys, where I remained for an extra year in charge of the Argentine party brought by the "Scotia," the journals and other data were put at my disposal in order that the present memoir might be prepared. In this connection I have to tender my best thanks to Mr JAMES MILLER

(late of the Ben Nevis Observatory) for his able assistance in the work during the past two winters.

For convenience in handling the large masses of data, this report is divided into several sections. The first deals with the instruments and the mode of using them at sea; then follow the land observations made at Laurie Island, South Orkneys, a meteorological log, and data from the base station at Cape Pembroke Lighthouse, Falkland Islands. The second portion of the report deals with the results of the discussion of the above observations, and various maps and diagrams are appended illustrative of the results.

OBSERVATIONS TAKEN AT SEA.

The form of publication of the sea observations is somewhat similar to that adopted in the "*Challenger*" *Report* ("Narrative of the Cruise"). It comprises the readings of the barometer corrected and reduced to 32° and sea-level (but not to standard gravity at lat. 45°), the temperature of the air and of evaporation deduced from readings of the dry and wet bulb thermometer, from which the relative humidity and vapour pressure have been obtained by means of Glaisher's tables, the direction and force of the wind, the amount and species of cloud, the state of the sea, and miscellaneous phenomena. The position of the vessel at noon is also given.

ATMOSPHERIC PRESSURE.—BAROMETERS.

The two barometers supplied by the Meteorological Office for use at sea were of the Kew marine pattern. One (that generally in use, No. A 520) was hung in the deck laboratory; the other, A 550, in one of the saloon cabins. The corrections were as follows:—

No.	27·5 ins.	28·0 ins.	28·5 ins.	29·0 ins.	29·5 ins.	30·0 ins.	30·5 ins.	31·0 ins.
A 520	—·010	—·010	—·010	—·010	—·010	—·010	—·010	—·010
A 550	—·015	—·015	—·010	—·010	—·010	—·010	—·010	—·010

A note appended to A 550 indicated that in January 1902 at 30·0 inches it read higher than the Meteorological Office standard by ·002 in. At 62° the thermometer attached to No. A 520 required a correction of $-0^{\circ}\cdot2$, while at the same temperature A 550 had a correction of $-0^{\circ}\cdot4$. The barometers were compared at Buenos Aires with the standard instruments at the "*Oficina Meteorological Argentina*" in January 1904, at the Cape Observatory in May 1904, and again at the Meteorological Office after the return of the Expedition, the corrections being in substantial agreement with the above throughout. Indirect comparisons were also made with the barometer at Cape Pembroke Lighthouse, Falkland Islands. The mean height of the barometers above sea-level was seven feet, the height varying a little according to the trim of the ship.

A large barograph and two small ones of the usual Richard pattern were hung at an approximate height of eleven feet above the sea.

TEMPERATURE OF THE AIR.—THERMOMETERS, HYGROMETERS.

The Expedition started with an ample supply of thermometers, but as very few were broken, it is unnecessary to give the corrections of those not used. The following are the corrections. It will be seen that they are very small.

No.	At 2°	12°	22°	32° to 92°
32	0·0	- 0·1	0·0	0·0
33	- 0·1	- 0·1	- 0·1	0·0
36	- 0·2	- 0·1	- 0·1	0·0
37	- 0·1	- 0·1	0·0	0·0
38	- 0·2	- 0·1	0·0	0·0

At temperatures below 10° other thermometers were employed, the corrections of which were—

No.	At - 27°	- 19°	- 10°	+ 2°	+ 12°	+ 22°
41	- 0·2	0·0	0·0	- 0·1	- 0·1	0·0
42	+ 0·1	+ 0·1	0·0	0·0	0·0	0·0
44	+ 0·3	+ 0·1	0·0	- 0·1	- 0·1	0·0
45	+ 0·4	+ 0·3	0·0	- 0·1	- 0·1	0·0

The form of thermometer screen employed for sea observations was the small single-louvred pattern recommended by the Meteorological Office. There was one on the starboard and one on the port side of the ship, screwed to posts which projected clear of the vessel, so that the air could circulate freely around the thermometers. The height above the deck was five feet and above the sea seventeen feet. The thermometers in both boxes were read at each observation, and the readings of the instruments exposed on the weather side were entered in the log. Except on rare occasions, one side of the ship was definitely a weather and the other a lee side. It may be worthy of notice that there was usually a difference of one or two degrees between the weather and the lee side of the "Scotia," the instrumental readings on the lee side being affected by heated currents from the cabins and engine-room,—hence the importance of having the thermometer screens on both sides of the poop. On one occasion the lee side was as much as 5° warmer than the weather side, and on another occasion, during a calm, a difference of nearly 10° was noted.

The wet bulb thermometers had a fresh coating of muslin put on them about once a week, and daily the bulbs were syringed with filtered water to get rid of the saline accretions such as form on all surfaces exposed to the action of sea-spray. A large and small Richard thermograph and a Richard hair hygograph were hung on Richard suspensions on the weather side.

CLOUDS.

The amount of cloud is estimated on the usual scale—0 clear blue sky ; to 10 entirely overcast.

The forms of the clouds were noted in general conformity with the definition given in the *International Cloud Atlas*.

The direction from which the upper clouds were moving, as well as their radiating point, was also noted when possible.

PRECIPITATION.

Several rain gauges of the marine pattern were kindly lent by their inventor, Dr BLACK, of Edinburgh. One was usually placed aft on the weather side, screwed to a post at a height of about eight feet above the deck. This position, considering the various difficulties that attend rainfall observations at sea, was a good one, as the gauge was never sheltered by the sails.

STATE OF THE SKY.

The weather and state of the sky are given in the tables, the international symbols and weather notation being used :—

● rain.	☄ lightning.	☉ solar corona.
* snow.	d ● drizzling rain.	⊕ solar halo.
△ hail.	☉ sun shining.	☾ lunar corona.
☼ mist or fog.	☉ sun gleaming.	☾ lunar halo.
— hoarfrost.	☾ rainbow.	∞ haze.
☂ dew.	▼ silver thaw.	q squally.
↗ snow drifting.	↗ gale.	☾ moon.
☳ thunderstorm.		

The intensity of the phenomenon was indicated by the exponents 0 and 2 thus, ●⁰ = slight rain, ●² = heavy rain.

WIND.

The direction of the wind is true, and was always observed by the ship's steering-compass, which stood on the after-part of the poop deck in front of the wheel, the direction being corrected from magnetic to true. As the "Scotia's" track in the Antarctic seas was not far removed from the magnetic meridian, the corrections (declination and deviation) in this region were small. The force of the wind was estimated on a scale of 0 to 12. This differs from the usual Beaufort scale, being that employed at the Ben Nevis Observatory,* where three members of the "Scotia" staff received their meteorological training.

Force.	Miles per Hour.	Force.	Miles per Hour.
0	0	7	60
1	6	8	72
2	12	9	(84)
3	21	10	(97)
4	30	11	(112)
5	39	12	(130)
6	49		

* *Trans. Roy. Soc. Edin.*, vol. xlii. p. 5.

There were several Robinson anemometers on board, but these were not employed while the ship was at sea.

STATE OF THE SEA.

The direction of the motion of the sea was noted, as in the wind observations, by the ship's steering-compass, and the data reduced to the true meridian.

The sea disturbances were noted on the following scale :—

0—dead calm.	5—rather rough.
1—very smooth.	6—rough.
2—smooth.	7—high.
3—slight.	8—very high.
4—moderate.	9—tremendous.

SOLAR RADIATION.

A black bulb solar radiation thermometer *in vacuo* was freely exposed in a stand fixed to the bridge, and the maximum temperature read at sunset.

SURFACE SEA TEMPERATURE.

The temperature of the sea-surface was, as a rule, observed every four hours, but the data obtained are discussed in the report dealing with the Physics of the Ocean.

METEOROLOGICAL OBSERVATIONS

MADE DURING THE

VOYAGE OF THE SCOTIA, 1902-1904.

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
NOVEMBER 17, 1902.													At noon, lat. 39° 34' N. long. 14° 01' W.
9	30.040	62.0	59.2	83	.462	s	0-2	1	...	Cir.	1	Very fine afterglow.	
12	.017	64.0	59.4	74	.443	s	0-1	3	...	Cir.	2		
16	29.985	64.3	60.7	80	.479	ssw	1	7	K.	...	2		
20	30.014	63.2	60.1	82	.474	s	0-1	7	...	Cir str. & Cir.	0-1		
NOVEMBER 18.													At noon, lat. 36° 59' N. long. 14° 34' W.
8	30.068	63.3	59.6	78	.458	WNW	0-1	10	K.	...	1	Cum at horizon all round.	
12	.076	64.0	61.5	85	.509	w	0-1	0	...	...	1		
16	.068	63.9	60.8	82	.488	w	1	9	K.	...	1		
20	.156	64.2	60.3	78	.467	WNW	0-1	1	...	Cir str.	...		
NOVEMBER 19.													At noon, lat. 34° 18' N. long. 15° 25' W.
8	30.260	64.0	62.6	92	.546	w	1-2	9	K.	...	...	Fragment of ☾ to W.	
12	.265	67.3	61.7	71	.470	sw	1	7	K.	...	1		
16	.244	67.5	59.2	59	.397	w	0-1	2	K.	...	0-1		
20	.315	66.0	59.3	65	.414	Calm	0	0	...	...	...		
NOVEMBER 20.													At Madeira, lat. 32° 40' N. long. 17° 15' W.
8	30.296	66.1	59.1	64	.408	NW	0-1	6	K.	...	0		
NOVEMBER 23.													At noon, lat. 32° 17' N. long. 17° 08' W.
8	30.355	65.8	59.5	68	.423	ENE	1	9	K.	...	1		
12	.362	65.8	57.9	61	.381	ENE	1	7	K.	...	1		
16	.322	66.6	59.0	62	.401	E	0-2	10	K.	...	...		

METEOROLOGICAL OBSERVATIONS MADE DURING THE

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
NOVEMBER 24, 1902.												At noon, lat. 30° 14' N. long. 18° 13' W.
8	30.336	66.9	59.1	60	.401	E	0-1	10	K.	...	1	
12	.300	67.2	59.8	62	.417	E	0-1	10	K.	...	1	
16	.290	67.4	60.2	63	.426	E	0-1	9	K.	Cir str.	1	
20	.305	68.0	61.1	64	.444	E	1	1	K.	...	1	
NOVEMBER 25.												At noon, lat. 28° 14' N. long. 19° 15' W.
8	30.254	68.3	63.4	73	.509	E	2-3	10	K.	Cir str.	2	
12	.240	69.4	63.2	68	.488	E	1-2	10	K.	Cir. K.	1	
16	.202	69.1	63.6	71	.504	ENE	1	1	K.	Cir.	1	
20	.221	68.5	63.1	71	.496	SE	0-1	4	K.	...	1	
NOVEMBER 26.												At noon, lat. 26° 23' N. long. 20° 20' W.
8	30.178	69.5	63.6	69	.500	E	0-1	9	K. str.	Cir. & cir. str.	2	
12	.140	70.3	63.9	68	.501	NE	0-1	8	K.	...	1	
16	.099	69.8	63.4	68	.490	NE	1	1	K.	...	1-2	
20	.118	69.4	63.0	67	.482	NE	1-2	1	K.	...	1	Max. 71°.7. Min. 67°.3,
NOVEMBER 27.												At noon, lat. 24° 21' N. long. 21° 20' W.
8	30.138	70.0	63.7	68	.498	NE	1-2	0	...	...	1	Cum at horizon.
12	.140	72.1	65.0	65	.513	NE	1-2	1	K.	...	1	
16	.101	70.9	64.5	67	.512	NE	1-2	1	K.	...	1	
20	.155	70.2	64.8	71	.531	NE	1-2	0	...	...	1	Max. 75°.4. Min. 68°.0.
NOVEMBER 28.												At noon, lat. 21° 58' N. long. 22° 26' W.
8	30.139	71.1	65.4	71	.539	NE	1-2	0	...	...	1	
12	.167	72.0	65.0	65	.514	NNE	1-2	0	...	...	1	
16	.108	71.8	65.3	67	.526	NNE	1-2	0	...	...	1	
20	.163	71.3	64.8	68	.516	NNE	2	0	...	...	1	Max. 75°.3. Min. 67°.8.
NOVEMBER 29.												At noon, lat. 20° 18' N. long. 23° 22' W.
8	30.152	72.0	66.2	70	.554	N	1-2	1	K.	...	1	
12	.141	73.3	68.2	74	.606	NNE	1-2	8	K.	Cir. K.	1	
16	.083	72.9	67.3	72	.580	NNE	1-2	8	K.	Cir.	1	
20	.158	72.5	68.0	76	.610	NNE	1-2	2	K. str.	...	1	Max. 74°.5. Min. 70°.3.
NOVEMBER 30.												At noon, lat. 18° 59' N. long. 24° 20' W.
8	30.148	72.3	66.2	69	.550	NNE	0-1	5	K. str.	Cir.	1	
12	.103	75.0	68.7	69	.601	NNE	0-1	8	K.	Cir. K.	1	
16	.031	74.0	69.4	76	.641	NNE	1	8	K.	Cir. K.	1	
20	.098	73.2	69.0	78	.638	NE	1-2	4	K. str.	...	1	Max. 73°.9. Min. 71°.0. Max. in sun 125°.8 (put out 2p.).

VOYAGE OF THE SCOTIA, 1902-1904.

3

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
DECEMBER 1, 1902.												At St Vincent, lat. 15° 53' N. long. 25° 00' W.
8	30.084	74.0	69.5	77	.645	SSE	0-1	10	K.	Cir K.	1	
12	.064	77.1	71.3	72	.668	E	1-2	4	K.	Cir.	0	
16	...	...	...	...	...	...	...	...	...	...	...	
20	.114	75.0	70.8	78	.682	E	0-1	0	...	...	0	
DECEMBER 2.												At noon, lat. 15° 15' N. long. 25° 09' W.
8	30.092	74.6	71.6	84	.722	ENE	1-2	0	...	...	1	Cum at horizon.
12	.061	75.0	71.4	81	.706	ENE	3	4	K.	...	1-2	
16	.013	75.6	73.0	86	.763	ENE	3	2	K.	...	1-2	
20	.075	75.5	72.9	86	.761	SE	0-1	0	...	...	1	Max. B.B. 126° 8.°
DECEMBER 3.												At noon, lat. 13° 07' N. long. 25° 09' W.
8	30.065	76.3	72.6	81	.734	NE	1	8	K.	...	1-2	
12	.037	77.3	70.7	69	.642	NNE	0-1	4	K.	...	1	
16	29.990	77.2	70.7	69	.644	NE	2	10	K., K.str.	...	1-2	
20	30.065	76.7	70.0	68	.624	NE	2-3	10	K. str.	...	1	
DECEMBER 4.												At noon, lat. 11° 15' N. long. 25° 20' W.
8	30.017	77.3	71.4	72	.669	NE	2-3	4	K.	...	1-2	
12	.026	77.3	72.0	74	.692	NE	2-3	7	K.	Cir K.	1-2	
16	29.968	78.0	72.2	72	.689	NE	2-3	6	K.	Cir K.	1-2	
20	30.025	77.8	72.4	74	.701	NE	3	2	K.	...	2-3	
												Max. B.B. 132° 0. 10p. ●° shower.
DECEMBER 5.												At noon, lat. 9° 23' N. long. 25° 31' W.
8	29.984	78.2	73.2	75	.728	NE	2-3	2	K.	Cir K.	1	Cum at horizon.
12	.969	79.0	73.6	73	.732	ENE	1-2	3	K.	...	3	
16	.932	79.6	73.8	72	.731	ENE	2-3	1	K.	Cir K.	1-2	
20	30.006	79.0	74.2	76	.758	ENE	3	10	K. str.	...	1-2	
DECEMBER 6.												At noon, lat. 7° 35' N. long. 25° 32' W.
8	30.025	75.5	73.0	86	.765	NE	1-2	10	Nim.	...	1-2	Rainfall 0.29 in.
12	.005	78.3	75.0	83	.805	NE	1-2	10	K. str.	...	1-2	
16	29.959	79.2	75.9	84	.830	NE	1	10	K. str.	...	1-2	
20	30.020	79.2	75.9	84	.830	SSE	0-1	9	K. str.	...	1	
DECEMBER 7.												At noon, lat. 5° 25' N. long. 26° 07' W.
8	30.047	79.2	75.6	82	.817	Calm.	0	4	K. & K.st.	...	0	4a. ●°. Fresh showers since. Max. B.B. 138° 7. 11.50a. ●°. 4.10-5, ●°; temp. of falling ● 75° at 4.40p. 78° 7 at 4.53, when dry bulb was 75° 1, wet 74° 0; 5p. bar. (cor.) 30.025 < to N. at times after 6.35p. Rainfall 0.91 in.
12	.023	77.0	74.1	85	.788	s	1	9	Nb. & K.	...	0-1	
16	29.985	80.3	75.4	76	.788	s	1-2	10	K. str. & Nb.	...	1	
20	30.073	78.1	76.2	90	.865	s var.	0-1	9	K., K. str., & Nim.	...	0-1	

* Black bulb solar maximum in vacuo.

METEOROLOGICAL OBSERVATIONS MADE DURING THE

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
DECEMBER 8, 1902.													At noon, lat. 3° 13' N. long. 26° 30' W.
8	30.040	80.3	76.7	83	.848	ESE	0-1	1	K.	...	1	Rainfall 0.58 in. 4.50p., ● ² for about three minutes. Max. B.B. 137° 0. Brilliant meteor to N.W. 8.15p.	
12	.031	80.4	76.1	79	.818	SE	2	9	K.	...	1		
16	.012	80.3	76.0	79	.815	SE	2-3	3	K.	...	1-2		
20	.073	79.8	75.9	81	.820	SE	2	1	K.	...	1-2		
DECEMBER 9.													At noon, lat. 1° 42' N. long. 27° 32' W.
8	30.101	78.8	75.2	82	.805	SE	2-3	9	K.	...	1-2	Rainfall 0.01 in. Max. B.B. 135° 0. Cum at horizon.	
12	.069	79.5	75.7	81	.816	SE	2-3	5	K.	...	1-2		
16	.028	79.3	75.5	81	.811	SE	2-3	1	K.	...	1-2		
20	.074	78.3	75.0	83	.805	SE	2	0	...	...	1		
DECEMBER 10.													At St Paul's Rocks, lat. 0° 55' N. long. 29° 22' W.
8	30.078	78.4	75.2	83	.812	SSE	0-1	10	K.	...	1-2	Gloomy in S.W. Max. 83° 1. Min. 76° 4. Max. B.B. 133° 0.	
12	.044	79.5	75.5	80	.807	SSE	3	2	K.	...	1-2		
16	29.995	79.6	75.7	81	.814	SSE	1-2	10	K.	...	1-2		
20	30.071	78.4	75.0	82	.803	SE	2-3	1	K.	...	1-2		
DECEMBER 11.													At noon, lat. 0° 22' S. long. 31° 00' W.
8	30.022	78.0	74.7	83	.797	SE	4	1	K.	...	3	Max. 79° 9. Min. 76° 4. Max. B.B. 130° 3.	
12	.061	78.4	74.4	79	.777	SE	3-4	0	...	...	2-3		
16	29.991	78.3	74.3	80	.774	SE	3	0	...	...	3		
20	30.027	78.0	74.1	80	.770	SE	3	0	...	...	2		
DECEMBER 12.													At noon, lat. 2° 01' S. long. 32° 18' W.
8	30.033	78.0	73.4	77	.739	SE	2-3	1	K.	...	2-3	A little cir. to S.E. Max. 80° 0. Min. 76° 5. Max. B.B. 133° 2.	
12	.051	78.7	74.8	80	.790	SE	3	4	K.	Cir.	3		
16	29.980	78.3	73.3	75	.730	SE	2	7	K.	Cir. K.	2		
20	30.047	77.8	73.6	79	.751	SE	2	4	K.	...	2		
DECEMBER 13.													At noon, lat. 3° 38' S. long. 33° 20' W.
8	30.030	78.0	74.6	82	.792	SE	1-2	7	K.	...	1	Cum at horizon. Max. 79° 6. Min. 76° 0. Max. B.B. 134° 9.	
12	.015	78.6	74.1	78	.760	SE	2	7	K.	Cir.	1		
16	29.951	78.1	74.4	81	.781	SE	2	9	K.	Cir str.	1-2		
20	30.022	77.8	74.5	83	.792	SE	2	5	K.	...	1-2		
DECEMBER 14.													At noon, lat. 5° 50' S. long. 34° 20' W.
8	30.047	77.3	73.7	82	.765	SE	2-3	9	K.	...	2	● ² since last obs. Max. 79° 3. Min. 70° 0? Max. B.B. 124° 9.	
12	.058	75.6	73.8	90	.800	SE	2	10	Nim.	...	2		
16	29.982	78.7	74.6	79	.781	SE	2	10	K.	...	2-3		
20	30.047	78.9	75.2	81	.804	SE	3	9	K.	...	1-2		

VOYAGE OF THE SCOTIA, 1902-1904.

5

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
DECEMBER 15, 1902.													At noon, lat. 7° 20' S. long. 34° 38' W.
8	30.018	76.3	74.3	80	.774	SE	1-2	1	K.	...	1-2	Rainfall 0.09 in. Max. 81° 3. Min. 75° 3. Max. B.B. 135° 1.	
12	.052	79.3	75.7	82	.820	SE	2	1	K.	...	1-2		
16	29.986	77.9	76.2	90	.869	SE	1-2	8	K.	...	1-2		
20	30.055	75.0	72.2	85	.740	S	1	9	K.	...	1		
DECEMBER 16.													At noon, lat. 9° 06' S. long. 34° 38' W.
8	30.013	78.1	74.1	80	.768	SE	2	0	...	...	2	Rainfall 0.03 in. Max. 80° 8. Min. 74° 3. Max. B.B. 132° 8.	
12	.044	79.0	73.0	71	.707	SSE	0-1	0	...	...	1-2		
16	29.977	79.0	74.2	76	.758	SSE	1-2	0	...	...	1-2		
20	30.031	78.2	74.4	80	.780	SSE	1	0	...	...	1		
DECEMBER 17.													At noon, lat. 11° 28' S. long. 35° 50' W.
8	30.005	78.0	75.0	84	.810	SE	2-3	1	K.	...	1-2	● shower about 2a. ; 0.01 in.	
12	.032	79.0	75.0	80	.793	ESE	2	1	K.	...	1-2		
16	29.979	79.3	75.3	80	.802	SE	1-2	1	K.	...	1-2		
20	30.022	78.4	74.4	79	.777	SE	1	0	...	...	1		
DECEMBER 18.													At noon, lat. 13° 26' S. long. 36° 45' W.
8	30.027	78.9	75.7	84	.828	SE	1-2	1	K.	...	1	● shower about 1a. ; not measurable. Max. 80° 9. Min. 75° 6. Max. B.B. 134° 2.	
12	.051	79.0	72.8	70	.699	SE	1-2	1	K.	...	1		
16	.009	79.3	72.4	68	.677	SE	1-2	0	...	...	1		
20	.045	79.0	74.0	75	.749	SE	3	0	...	...	1-2		
DECEMBER 19.													At noon, lat. 15° 24' S. long. 37° 12' W.
8	30.080	79.1	74.4	77	.765	SE	2-3	7	K.	...	1-2	● shower in early morning. Very dull and gloomy to E. and S. ● from about 7.35 to 8.15p. Max. 81° 3. Min. 74° 7. Max. B.B. 138° 3.	
12	.124	80.0	74.9	75	.771	SE	0-1	3	K.	...	1		
16	.098	79.3	74.5	77	.766	SE	1	1	K.	...	1		
20	.111	75.1	72.3	85	.742	SE	1-2	10	Nim.	...	1		
DECEMBER 20.													At noon, lat. 18° 11' S. long. 37° 55' W.
8	30.094	79.4	73.3	70	.713	E	0-1	3	...	Cir & Cir. K.	0-1	Rainfall 0.32 in. Max. 83° 9. Min. 73° 0. Max. B.B. 135° 3.	
12	.104	81.1	74.2	69	.722	Calm	0	3	K.	Cir & Cir. K.	0-1		
16	.034	79.0	72.7	70	.695	ENE	0-1	0	...	...	0-1		
20	.044	78.0	73.0	75	.722	ENE	0-1	0	...	...	0-1		
DECEMBER 21.													At noon, lat. 20° 40' S. long. 38° 20' W.
8	29.982	78.0	73.0	75	.722	N	1-2	4	...	Cir. K.	...	A little cir. from W. 8p. < to W. Max. 82° 8. Min. 76° 0. Max. B.B. 138° 3	
12	.968	79.0	73.0	71	.707	N	1-2	2	K.	...	...		
16	.883	78.9	73.2	72	.717	N	2-3	1	...	Cir. K.	...		
20	.913	78.1	74.0	79	.763	N	1-2	6	K.	...	...		

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VOYAGE OF THE SCOTIA, 1902-1904.

7

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-8.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
DECEMBER 27, 1902.												
At noon, lat. 32° 15' S. long. 47° 30' W.												
1	29.791	76.0	74.8	93	.839	NE	1-2	1	K. str.	...	1-2	Heavy swell at times. ∞ and misty.
2	.753	76.0	75.0	94	.848	NE	1-2	7	K. str.	...	1-2	∞ and misty; wind freshening at times.
3	.734	76.0	74.8	93	.839	NE	1-2	8	K.	...	1-2	∞ all round.
4	.722	75.8	74.2	91	.815	NW	1	9	K. str.	...	1	" " very damp; N. swell; <
5	.721	75.7	74.0	90	.807	NW	2	8	Str.	Cir.	1	Swell from N.
6	.714	76.0	74.0	89	.801	NNW	2-3	9	Str.	Cir.	2	Less hazy; caught four moths.
7	.713	75.6	73.6	89	.801	NNW	3	10	Str.	...	3	∞°
8	.742	76.0	75.0	94	.848	NNW	1	8	K.	...	1	☉ gleaming.
9	.752	75.8	74.0	90	.805	NW	3	10	Nim str.	...	3	●° ● to N.E.
10	.719	74.7	70.7	79	.683	NW	1-2	9	Nim str.	...	2	●° N.E. swell. [10.50.
11	.729	73.3	72.1	93	.766	SSW	2-4	10	Nim.	...	1-2	N.E. swell. q force 7 at 10.15. ●²
12	.751	72.7	72.1	97	.777	SSE	2-3	10	Nim.	...	1	11.40: wind S.S.E. 0-1.
13	.751	74.0	73.0	94	.793	SSE	1-2	10	Nim.	...	1	
14	.754	74.0	72.8	93	.784	SSW	1-2	10	K.	...	0-1	☉ gleaming.
15	.734	75.1	72.7	87	.759	WSW	1-2	10	K.	...	1	
16	.722	74.5	72.2	87	.748	WSW	1	10	K.	...	1	
17	.722	74.4	72.1	88	.746	WSW	1	6	K.	Cir. K.	1-2	
18	.730	74.2	72.3	90	.759	SW	1	10	K.	...	1-2	Max. in sun 121.8.
19	.742	74.2	72.2	89	.754	SW	1-2	10	K.	...	1	Gloomy all round.
20	.771	74.0	71.4	86	.722	SW	1-2	10	K.	...	1	∞ round horizon.
21	.791	74.0	72.5	92	.771	S	0-1	6	Str.	...	1	Stratus round horizon.
22	.817	73.8	71.2	86	.717	SSW	0-1	10	Str.	...	1	
23	.819	73.0	70.3	86	.693	SW	1	10	Str.	...	1	
Mdt.	.832	72.4	69.4	84	.665	SW	1-2	10	K.	...	1	Rainfall 0.32 in.
Means.	29.751	74.6	72.8	89.8	.772	...	1.6	8.8	...	...	1.4	
DECEMBER 28.												
At noon, lat. 33° 50' S. long. 48° 44' W.												
1	29.827	72.3	69.0	82	.641	SW	1-2	9	K.	...	1	Stars gleaming overhead.
2	.800	71.4	68.0	81	.627	SW	1-2	6	K.	...	0-1	∞ all round.
3	.802	71.0	66.2	74	.567	SW	1-2	10	K.	...	1	∞. Stars gleaming.
4	.794	70.6	66.0	75	.566	S	0-1	8	K. str.	...	0-1	
5	.807	70.0	64.7	72	.531	S	0-1	8	Str.	Cir str.	0-1	Swell from N.E.
6	.835	70.0	65.2	74	.548	S	0-1	9	Str.	Cir str.	0-1	☉ gleaming.
7	.861	69.8	67.0	84	.615	SSE	0-1	6	Str.	Cir str.	0-1	Det. K. str. round horizon.
8	.867	70.8	65.0	70	.529	S	0-1	3	K.	...	0-1	N.E. swell.
9	.879	73.0	67.4	72	.582	S	0-1	3	K.	...	0-1	N.N.E. swell.
10	.890	70.1	64.5	71	.524	S	1	2	K.	...	0	" "
11	.874	70.7	64.0	66	.498	S	0-1	0	...	...	0	" "
12	.880	71.0	64.3	66	.504	S	1-2	0	...	...	1	
13	.868	71.3	64.4	66	.504	S	1-2	0	...	...	1	Cum at horizon.
14	.867	71.3	64.8	68	.517	SW	1	0	...	...	1	
15	.850	72.8	65.7	66	.527	SW	0-1	0	...	...	1	
16	.836	72.0	67.0	74	.581	NE	0-1	1	K.	...	1	
17	.832	72.0	67.1	75	.585	NE	0-1	0	...	...	1	N.N.E. swell.
18	.845	72.7	67.3	73	.583	NE	0-1	0	...	...	0-1	K. str. at horizon.
19	.853	72.1	67.8	78	.609	NE	0-1	3	K.	...	0-1	Max. in sun 126°.2.
20	.845	70.0	67.1	84	.617	Calm.	0	1	Str.	...	0-1	
21	.849	70.2	66.4	79	.588	SW	0-1	0	...	...	0-1	∞² at horizon.
22	.843	70.0	66.3	80	.587	SW	0-1	1	K. str.	...	0-1	
23	.850	70.2	66.0	77	.573	SW	0-1	2	K. str.	...	1	
Mdt.	.842	70.0	67.3	85	.624	SW	0-1	0	...	...	1	Rainfall 0.32 in.
Means.	29.846	71.1	66.2	74.7	.568	...	0.7	3.0	...	...	0.7	

METEOROLOGICAL OBSERVATIONS MADE DURING THE

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
DECEMBER 29, 1902.													At noon, lat. 35° 28', S. long. 50° 34' W.
1	29.825	69.1	67.0	87	.624	sw	0-1	0	...	...	1		
2	.816	69.5	67.1	86	.623	sw	0-1	1	K.	...	0-1		
3	.807	69.2	66.3	84	.596	sw	0-1	3	K. str.	...	0-1	N.E. swell. ∞	
4	.810	70.0	67.0	83	.613	wsW	0-1	5	K. str.	Cir. K.	0-1		
5	.805	69.0	66.0	83	.587	sw	0-1	5	Str.	Cir str.	0-1	N.N.E. swell.	
6	.832	70.0	67.2	84	.621	sw	0-1	1	...	Cir str.	0-1	Thin str. round horizon.	
7	.828	70.2	67.0	82	.610	sw	1	5	...	Cir.	0-1		
8	.848	70.5	66.0	75	.568	wsW	1	7	Str.K.str.	...	0-1	☉ gleaming.	
9	.847	70.8	66.0	74	.563	wsW	1-2	9	Str. K.	...	1		
10	.849	70.3	65.0	72	.536	wsW	2	5	Str. K.	...	1	☉ shining.	
11	.845	70.0	63.3	66	.486	sw	3	0	...	...	2	☉ " Clouds at horizon.	
12	.850	69.5	62.0	62	.451	sw	5	0	...	...	4-5		
13	.855	67.7	61.7	69	.466	sw	4-5	5	K.	...	4-5		
14	.870	66.4	60.0	66	.430	ssW	3-4	2	K.	...	3-4		
15	.880	65.8	59.7	69	.428	sw	3-4	4	K.	...	3		
16	.871	65.0	57.8	62	.386	sw	4	2	K.	...	3-4		
17	.878	64.2	57.2	63	.379	ssW	3-4	7	K.	...	3-4		
18	.876	64.7	58.0	64	.395	sw	3-4	9	K.	...	3		
19	.884	63.9	56.5	61	.365	sw	3	6	K.	...	3-4	Max. in sun 127° 5.	
20	.885	63.2	56.2	63	.364	sw	4-5	8	K.	...	3-4		
21	.908	62.1	56.0	67	.371	sw	5	5	K. Nim.	...	3-4		
22	.892	61.6	54.4	62	.337	sw	3-4	4	Nim.	...	3	q of wind, and ● 10.10.	
23	.919	60.9	55.0	67	.359	sw	2-3	3	Nim.	...	3-4	q ² at times, force 5-6.	
Mdt.	.921	60.2	53.9	65	.340	sw	4	1	K.	...	3-4	q ² at times.	
Means.	29.858	66.8	61.5	71.5	.479	...	2.6	4.0	...	...	2.3		
DECEMBER 30.													At noon, lat. 35° 23' S. long. 49° 53' W.
1	29.906	61.0	53.3	59	.318	sw	3	1	K.	...	3-4	q ² at times, with ●°.	
2	.916	60.5	53.1	60	.318	sw	3-4	6	K. nim.	...	3-4	q ² at times, with ●°.	
3	.897	59.6	52.1	60	.305	sw	3-4	5	K.	...	3-4	q at times.	
4	.919	60.7	52.8	58	.310	ssW	2-5	1	K. str.	...	4	q at times.	
5	.924	59.0	53.1	67	.332	ssW	2-4	2	K.	...	3-4	q force 6 at 4.30.	
6	.954	61.1	52.9	58	.308	ssW	4	1	K.	...	3-4	q nim to S.W.	
7	.964	61.0	52.8	57	.307	s	5	1	K.	...	4-5	q cum. round horizon.	
8	.974	60.2	51.8	56	.293	s	3-4	4	K.	...	4	●° during observation.	
9	.994	57.6	52.8	72	.341	s	4	8	Str.	...	4-5	● at times in passing showers.	
10	30.011	61.2	52.7	56	.302	s	4-5	5	K.	...	4-5	☉ shining.	
11	.024	59.5	53.8	68	.344	s	5	9	Str. K.	...	5	● at times; blue sky astern.	
12	.064	61.2	53.9	61	.330	sSE	4-5	4	K.	...	5		
13	.065	61.0	53.9	62	.332	sSE	3-4	4	K.	...	4-5		
14	.067	61.1	53.0	58	.310	sSE	3-4	9	K.	...	4-5		
15	.089	61.0	52.0	54	.289	sSE	4	3	K.	...	5		
16	.076	60.3	54.3	67	.349	sSE	4	9	K. nim.	...	5	q ●° at times.	
17	.122	61.0	54.7	66	.351	sSE	4-5	4	K.	...	5		
18	.127	60.9	52.7	57	.305	sSE	4	5	K.	...	5		
19	.124	60.8	52.7	58	.306	sSE	3-4	4	K.	...	4	q. Max. in sun 124° 5.	
20	.126	60.8	53.1	59	.315	sSE	4	7	K.	...	4		
21	.152	60.8	54.0	63	.336	s	4	9	K.	...	4		
22	.176	61.0	52.2	55	.293	NE	4	1	K.	...	4	Bar. pumping slightly.	
23	.167	60.9	51.3	51	.276	SE	3-4	1	K.	...	3-4		
Mdt.	.177	61.0	52.3	55	.296	SE	3-4	1	K.	...	4	Rainfall 0.02 in.	
Means.	30.042	60.6	53.0	59.9	.315	...	3.9	4.3	...	...	4.2		

VOYAGE OF THE SCOTIA, 1902-1904.

9

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
DECEMBER 31, 1902.												
At noon, lat. 36° 39' S. long. 52° 10' W.												
1	30.171	60.3	52.9	61	.316	SE	3-4	4	K.	...	4	
2	.164	58.8	53.1	68	.335	SE	2-4	7	K. nim.	...	4	q at times with ●°.
3	.167	59.9	53.2	63	.327	SE	2-3	10	K. nim.	...	3-4	q at times d ●°.
4	.183	59.8	52.6	62	.314	SE	3	10	Str.	...	3-4	q at times.
5	.193	60.3	52.1	57	.298	SE	3	4	Str.	...	3	Cum str. round horizon.
6	.226	60.6	52.0	56	.293	SE	3	5	K. st.	...	3	" "
7	.256	59.1	50.3	54	.272	SE	2	2	K.	...	2-3	" "
8	.261	60.2	51.5	55	.287	SE	1	10	Str.	...	2	E. swell.
9	.266	60.5	52.5	58	.305	SE	1	10	K. str.	...	2	S. W. swell.
10	.261	60.9	52.5	56	.301	SE	1-2	10	K. st.	...	2	S. x W. swell.
11	.291	61.2	53.0	57	.309	SE	1-2	10	K. st.	...	2	" "
12	.296	61.0	53.0	58	.311	SE	1-2	10	K. str.	...	2	" "
13	.301	61.4	52.5	54	.297	SE	1-2	9	K.	...	1-2	
14	.313	61.3	52.9	57	.307	SE	1-2	9	K.	...	1-2	Swell from S. E.
15	.316	62.0	52.9	54	.299	SE	1-2	4	K.	...	1-2	"
16	.286	61.8	52.5	53	.294	SE	1-2	3	K.	...	1	
17	.303	62.1	53.2	55	.304	SE	1-2	4	K.	...	1	
18	.315	62.1	53.3	55	.307	SE	1-2	2	K.	...	1	
19	.316	61.1	53.1	58	.312	SSE	1	2	K.	...	1	Max in sun 120°.4.
20	.325	61.0	52.2	55	.293	SSE	1	1	K. str.	...	1	
21	.326	61.2	52.0	53	.287	SSE	0-1	1	K. str.	...	0-1	
22	.337	61.1	52.9	58	.308	SSE	1	5	K.	...	1	
23	.354	61.1	52.8	57	.306	SSE	1	0	...	...	0	
Mdt.	.344	61.0	53.0	58	.311	SSE	0-1	0	..	...	0	
Means.	30.274	60.8	52.6	57.2	.304	...	1.7	5.5	...	...	1.9	

At noon,
lat. 39° 01' S. long. 53° 40' W.

JANUARY 1, 1903.

1	30.337	60.7	52.9	59	.312	Calm	0	0	...	...	0-1	Swell.
2	.314	61.0	53.4	60	.320	Calm	0	0	...	...	0	Slight swell.
3	.310	60.9	53.0	58	.312	Calm	0	0	...	...	0	Swell.
4	.319	61.0	53.2	59	.316	Calm	0	0	...	...	0	S. E. swell.
5	.328	61.1	53.7	61	.326	sse	0-1	2	K.	...	0-1	
6	.337	62.6	55.0	60	.341	sse	0-1	6	K.	...	0-1	
7	.355	63.3	56.0	62	.358	Calm	0	1	K.	...	0	Slight swell.
8	.351	63.0	55.1	59	.339	Calm	0	0	...	...	0	S. swell.
9	.360	65.5	58.0	61	.385	Calm	0	0	...	...	0	"
10	.371	64.0	58.0	67	.403	NW	0-1	0	...	...	0	"
11	.377	65.0	58.0	63	.391	Calm	0	0	...	...	0	"
12	.358	65.8	58.4	63	.393	WNW	0-1	0	...	...	0	"
13	.380	63.0	57.2	68	.392	Calm	0	0	...	...	0	Slight swell.
14	.367	63.9	57.4	65	.388	Calm	0	0	...	...	0	" Cum at horizon.
15	.363	66.0	58.1	60	.383	Calm	0	0	...	...	0	Slight swell from S. E.
16	.342	64.4	56.5	59	.360	Calm	0	0	...	...	0	" "
17	.334	64.0	57.0	63	.376	Calm	0	0	...	...	0	" "
18	.332	66.7	59.3	62	.408	Calm	0	0	...	...	0	" "
19	.329	64.0	58.0	67	.403	Calm	0	0	...	...	0	" " Max. in sun 124° 0.
20	.335	61.7	57.2	74	.408	Calm	0	0	...	...	0	" "
21	.345	58.2	55.1	81	.393	Calm	0	0	...	...	0	" "
22	.335	58.0	55.1	82	.396	Calm	0	0	...	...	0	" "
23	.331	57.3	55.0	85	.401	Calm	0	0	...	...	0	" "
Mdt.	.328	57.1	54.8	85	.398	Calm	0	0	...	...	0	" "
Means.	30.343	62.4	56.1	66.0	.371	...	0.1	0.4	...	...	0.1	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
JANUARY 2, 1903.													At noon, lat. 41° 38' S. long. 54° 40' W.
1	30.305	57.0	55.0	87	.405	Calm	0	0	...	...	0	Swell slightly increasing. D ² . S.E. swell. No clouds at horizon. Very few str. clouds near horizon.	
2	.301	56.9	54.9	87	.403	Calm	0	0	...	...	0		
3	.292	56.3	54.9	90	.413	Calm	0	0	...	...	0		
4	.284	56.1	54.2	87	.396	NNW	0-1	0	...	...	0		
5	.288	56.2	54.7	90	.408	SW	0-1	0	...	...	0-1		
6	.301	56.3	54.8	90	.409	SW	0-1	0	...	...	0-1		
7	.316	56.3	54.9	90	.412	W	0-1	0	...	...	0-1		
8	.315	57.8	56.0	88	.424	WSW	0-1	0	...	...	0		
9	.292	59.0	56.0	82	.407	NNW	0-1	0	...	...	0		
10	.287	61.6	58.0	79	.432	NNW	1	0	...	...	1		
11	.286	62.0	57.8	76	.421	NNW	1	0	...	...	1		
12	.262	62.5	58.0	74	.420	NNW	1	0	...	...	1		
13	.262	62.4	57.8	74	.416	NNW	1	2	...	Cir.	0-1		
14	.253	60.3	56.7	79	.411	NNW	1	2	...	Cir & Cir. K.	0-1		
15	.246	58.8	55.5	80	.397	NNW	1-2	3	...	Cir & Cir. K.	0-1		
16	.220	57.7	55.0	83	.397	NNW	1-2	5	...	Cir & Cir. K.	1		
17	.210	58.0	55.7	85	.413	NNW	1-2	7	...	Cir & Cir. K.	1		
18	.209	57.4	55.1	86	.403	NNW	1-2	7	...	Cir & Cir. K.	1		
19	.187	57.5	55.7	88	.419	NNW	1-2	9	...	Cir & Cir. K.	1-2		
20	.188	58.0	56.0	87	.421	NNW	1-2	9	...	Cir str.	1-2		
21	.181	56.6	55.2	90	.417	NNW	2	7	...	Cir str.	1-2		
22	.180	56.1	55.0	92	.418	NNW	1-2	1	...	Cir str.	1-2		
23	.188	56.1	55.0	92	.418	NNW	2-3	1	...	Cir str.	2-3		
Mdt.	.156	56.0	54.7	91	.411	NNW	2-3	0	...	...	2-3		
Means.	30.250	58.0	55.7	85.3	.412	...	1.1	2.2	...	...	0.8		
JANUARY 3.													At noon, lat. 45° 29' S. long. 56° 3' W.
1	30.151	56.0	54.8	92	.413	NW	2-3	0	...	...	2-3	Very little phosphorescence to-night. Stars gleaming overhead. ∞ and dull. ∞ lumps of brown seaweed. ∞ dull. Finer whale, Petrol. ∞ d ●° ●° began 7.15. ●° ●° ∞ at horizon. "	

VOYAGE OF THE SCOTIA, 1902-1904.

11

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
JANUARY 4, 1903.													At noon, lat. 47° 37' S. long. 57° 25' W.
1	30.024	53.7	53.5	99	.408	NNE	2-3	9	K. str.	...	1-2	< about every 10 minutes during hour. Stars gleaming, clearing overhead.	
2	.006	53.8	53.5	98	.407	NNE	2-3	4	K str.	...	1-2	Frequent flashes of sheet <.	
3	29.975	54.8	54.2	95	.412	N	2-3	3	K.str.,K.	...	1-2	< at times till 2.30.	
4	.952	54.8	54.1	95	.410	N	2	6	K. str.	...	2	< near horizon, K 4.20, ● 4.25-4.50.	
5	.926	54.3	53.8	97	.408	N	3	6	Nim., K. str.	...	2-3	Showery, ● ⁰ .	
6	.910	54.5	53.6	94	.399	N	3-4	7	Nim., K. str.	...	3	● ² at times.	
7	.874	54.0	52.9	92	.385	NW	3	9	Str.	...	2-3	● ² " "	
8	.848	53.6	52.6	93	.383	NNW	2	10	Str.	...	2		
9	.831	53.5	52.7	94	.387	NW	2-3	10	Nim.,str.	...	2-3	T. Sun gleaming.	
10	.804	53.0	52.1	94	.377	NW	2-3	8	K. str.	...	2	∞ " "	
11	.783	53.5	52.6	93	.384	NNW	2	6	K.	...	2	∞ round horizon.	
12	.782	53.0	52.0	93	.374	NW	2-3	5	K.	Cir.	1	∞ " "	
13	.771	53.0	52.0	93	.374	NW	2	3	K.	Cir.	1-2	∞ " "	
14	.755	53.0	52.0	93	.374	NW	2	6	...	Cir. K.	1-2		
15	.732	53.2	52.0	92	.371	NW	2-3	2	K.	...	1-2		
16	.719	53.8	52.3	89	.372	NW	2-3	1	...	Cir. K.	2-3		
17	.691	53.3	52.2	92	.376	NW	2-3	1	...	Cir. K.	2	∞ at horizon.	
18	.694	53.5	52.2	90	.373	NW	2-3	0	...	...	2	∞ " "	
19	.685	53.2	52.1	93	.374	NW	1-2	0	...	...	2	∞ " "	
20	.675	51.5	50.7	94	.359	NW	1-2	0	...	...	2-3	∞ " "	
21	.668	51.6	50.2	94	.353	NW	1-2	0	...	...	2	∞ and cum on horizon.	
22	.649	50.8	50.0	94	.351	NW	2-3	8	...	...	2-3	< at 22.15. ∞	
23	.611	50.0	49.3	95	.342	NNW	2	10	K.	...	1-2	Misty appearance.	
Mdt.	.617	49.1	48.9	98	.344	NW	2-3	10	Nim.	...	1-2	d● ⁰ . < during hour. Rainfall 0.03 in.	
Means.	29.791	53.0	52.1	93.9	.379	...	2.3	5.2	...	...	2.0		
JANUARY 5.													At noon, lat. 49° 55' S. long. 59° 44' W.
1	29.595	48.5	48.2	97	.340	NW	2-3	10	Str., fog	...	1-2	< ² during hour,  and ●.	
2	.579	48.0	47.7	98	.327	WNW	2	10	Mist	...	1-2	< ² all round at frequent intervals.  [and ● ⁰ .	
3	.604	47.0	46.9	99	.321	WNW	1	10	Mist	...	1	" " "	
4	.587	47.0	46.8	99	.318	W	1	10	Mist	...	0-1		
5	.605	46.6	46.3	98	.311	W	2	10	Mist	...	1	Very wet mist.	
6	.599	46.2	46.1	99	.310	W	2	10	Mist	...	1	Clearing overhead. ☉ gleaming.	
7	.599	46.0	45.9	99	.309	W	2-3	10	Mist	...	2		
8	.606	46.8	46.6	98	.316	WSW	1-2	10	Mist	...	1-2	☉ gleaming.	
9	.575	48.9	48.2	95	.329	S	1	9	K. str.	...	1-2	Blue sky at horizon.	
10	.570	49.0	48.4	96	.332	S	1	6	K. str.	Cir. K.	1	Str. and fog bank round horizon.	
11	.588	49.6	49.0	96	.340	WNW	1	5	K. str.	Cir str.	1	" " " on E. "	
12	.577	49.7	49.0	95	.338	W	1-2	8	K.	...	0-1		
13	.604	49.3	48.3	93	.326	WSW	2	5	K.	...	1-2		
14	.632	49.0	47.9	92	.320	SW	2-3	3	K.	...	1-2		
15	.660	50.0	48.2	87	.314	SW	4	0	...	...	1-2	Cum at horizon.	
16	.685	50.5	47.4	79	.290	W	4	2	...	Cir. K.	2		
17	.710	50.1	47.1	80	.287	SW	3	2	...	Cir. K.	2		
18	.728	49.8	46.1	76	.269	SW	3-4	0	...	...	2		
19	.738	49.1	46.0	78	.275	W	4-5	1	...	Cir.	3		
20	.758	48.7	45.7	80	.272	SW	3	0	...	...	2-3		
21	.777	48.1	45.5	82	.273	SW	3	0	...	...	2		
22	.796	48.0	44.2	74	.247	SW	2	0	...	...	1-2	Cir str. at horizon.	
23	.817	47.5	44.0	76	.248	SW	1-2	0	...	...	1		
Mdt.	.814	47.3	45.0	84	.271	SW	1-2	0	...	...	0		
Means.	29.658	48.4	46.9	89.6	.303	...	2.2	5.0	...	...	1.4		

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.		
JANUARY 6, 1903.											
											At noon, lat. 51° 42' S. long. 57° 51' W.
1	29.834	47.8	45.3	82	.272	W	1-2	0	...	1	K. str. at southern horizon.
2	.828	47.7	45.2	82	.272	W	1-2	0	...	1	
3	.825	47.7	45.1	82	.269	W	1-2	5	K. st.	1	
4	.815	47.2	44.7	83	.266	NW	2	8	...	0-1	
5	.831	46.6	44.2	83	.262	NNW	2	10	Str.	0-1	
6	.817	48.2	45.3	80	.268	NW	3	10	Str.	1	
7	.814	49.9	45.6	72	.259	W	3-4	10	Str. cum.	1	
8	.812	51.5	46.8	71	.267	W	1	10	Str.	...	Arrived at Port Stanley.
9	.787	55.0	47.4	58	.249	W	0-1	10	K.	...	
10	.771	56.7	48.1	54	.249	W	1-2	10	K.	...	
11	.733	58.7	46.8	43	.212	NW	4	8	Str. cum.	0-1	
12	.701	59.2	48.7	45	.242	W	3	10	Str. K.	...	g.
13	.673	59.1	47.8	52	.227	W	4-5	10	K.	1-2	
14	.664	57.0	49.1	57	.264	W	4	10	K. str.	1	
15	.648	56.6	50.1	64	.290	W	4-5	10	K. str.	...	
16	.625	...	...	...	...	...	...	10	K. str.	...	
17	.625	...	...	...	...	...	...	...	...	...	
18	.615	...	...	...	...	...	...	...	...	...	
19	.605	54.1	50.5	77	.321	W	0-1	10	K. str.	...	
20	.595	53.7	50.5	79	.328	W	0-1	10	K. str.	...	
21	.586	54.2	51.1	80	.335	WNW	0-1	10	K. str.	...	
22	.575	...	...	...	...	...	...	...	...	...	
23	.572	53.0	50.7	84	.340	W	0-1	10	K. str.	...	
Mdt.	.573	52.1	50.0	85	.334	W	0-1	1	K. str.	...	
Means.	29.705	...	...	...	...	...	...	...	...	...	
JANUARY 7.											
											At Port Stanley.
6	29.587	51.0	49.0	86	.323	WNW	0-1	3	...	0-1	
8	.583	59.3	53.7	69	.343	Calm	0	3	...	...	
9	.599	62.0	55.5	65	.360	Calm	0	2	...	...	
13	.584	66.0	57.0	56	.356	NW	1-2	10	...	...	
19	.535	56.5	53.5	81	.371	Calm	0	8	...	...	
Mdt.	.590	53.3	51.6	88	.359	W	1	8	K.	...	
JANUARY 8.											
											At Port Stanley.
8	29.519	61.4	54.7	64	.347	NW	1-2	9	Cir. K, Cir. st.	...	
19	.358	63.7	55.5	58	.343	WNW	0-1	0	...	...	Cum at horizon.
20	.351	57.3	52.1	70	.326	W	0-1	0	...	...	
21	.325	55.0	52.8	86	.370	WNW	1-2	0	...	...	
22	.313	54.0	52.2	87	.366	WNW	1	0	...	...	
JANUARY 9.											
											At Port Stanley.
8	29.120	57.9	54.7	80	.389	N	3-4	4	K.	...	g. Distant T 7.50.
9	.042	55.7	53.6	87	.384	N	3-4	10	K.	...	
10	.025	54.6	53.3	91	.389	N	3-4	10	Nim.	...	Overcast, d. g. ☉ gleaming.
16	28.883	50.9	46.3	71	.262	NW	4-5	10	K.	...	● shower to W.
18	.769	49.2	47.1	86	.298	WNW	5	10	Nim.	...	g.
19	.767	50.9	47.6	79	.291	W	4-5	9	K.	...	Rainfall 0.04 in.

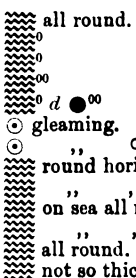
VOYAGE OF THE SCOTIA, 1902-1904.

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Hour.	Bar. at 32' and sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
JANUARY 10, 1903.												At Port Stanley.
9	29.233	45.5	41.5	72	.220	W	5-6	10	K. st.	...	↗ during night; squalls 8-9; ship [dragged anchors]. q ² . ↗ q ² . ● 11.45a. Cirro-cum. ☉ gleaming. q ⁰ ☉ gleaming. q shower cloud to N.W. p showers. ▲ q ² at times. q at times. ▲ showers. Rainfall 0.03 in.	
10	.254	46.5	41.3	66	.207	WSW	5-6	10	K.	...		
11	.260	48.0	42.0	62	.206	SW	6-8	10	K.	...		
12	.269	45.6	41.1	70	.212	SW	4-5	10	K. st., Nim.	...		
13	.298	44.4	40.2	70	.206	SW	4-5	10	K. st.	...		
14	.319	44.0	41.0	77	.224	SW	3	10	Nim, K.	...		
16	.334	46.0	40.9	66	.205	W	3	9	K., st.	...		
18	.381	43.3	39.4	72	.201	WSW	4	10	K.	...		
19	.397	45.2	40.2	66	.199	SW	4	10	K.	...		
20	.419	43.3	39.0	69	.194	SW	3-4	9	K.	...		
Mdt.	.471	40.5	33.4	91	.228	SW	3-4	4	K.	...		
JANUARY 11.												At Port Stanley.
8	29.466	47.3	43.2	72	.234	SW	3-4	10	Nim.	...	Blue sky to S. q ● ⁰ . q q p ● at times. q ² at times. p showers of ▲ at times, with q ² .	
10	.424	49.7	44.0	64	.229	WSW	4-5	9	K.	...		
12	.415	46.0	44.0	86	.265	SW	3	10	Nim.	...		
14	.394	46.8	44.0	80	.255	SW	3-4	9	K.	...		
18	.415	43.0	40.0	78	.215	SSW	3	10	K.	...		
22	.476	41.5	39.0	81	.211	SW	3-4	10	Nim.	...		
JANUARY 12.												At Port Stanley.
8	29.630	41.4	37.7	73	.190	SW	3-4	10	Nim.	...	q ⁰ at times, with p showers of ▲. Very fine, sea calm.	
9	.641	42.0	38.2	36	.211	S	2-3	10	K.	...		
10	.670	41.8	38.1	74	.193	S	1-2	10	Nim.	...		
11	.686	43.5	39.6	72	.203	S	1-2	10	K.	...		
12	.699	43.1	39.4	73	.203	SSW	1-2	10	K.	...		
Mdt.	.776	40.5	38.0	80	.202	SW	0-1	2	K.	...		
JANUARY 13.												At Port Stanley.
8	29.768	47.6	43.6	73	.240	Calm	0	3	K.	...	Rainfall 0.03 in.	
20	.711	47.4	43.7	75	.243	WNW	1	9	K.	...		
JANUARY 14.												At Port Stanley.
8	29.537	48.6	47.2	90	.307	N	2-3	10	Nim.	...	☼ on hills, d ●. [500 feet. Almost constant ●. ☼ on hills from q ⁰ at times. Rainfall 0.30 in.	
20	.439	45.4	44.7	96	.288	SSW	2-3	10	Nim.	...		
Mdt.	.539	44.0	41.8	83	.240	SSW	2-3	10	K.	...		
JANUARY 15.												At Port Stanley.
8	29.770	45.2	40.2	66	.199	S	2-3	7	K.	...		
20	.919	44.0	39.8	70	.202	Calm	0	10	Str.	...		
Mdt.	.932	43.1	39.6	74	.207	S	0-1	10	K. str.	...		
JANUARY 16.												At Port Stanley.
8	29.916	45.0	40.7	70	.209	Calm	0	10	Str.	...	Very fine and sunny. A little cum at N.W. horizon.	
10	.913	45.0	41.1	73	.216	Calm	0	10	K., str.	...		
12	.899	47.4	42.2	66	.215	NNE	0-1	4	K.	...		
18	.804	48.4	43.7	69	.234	N	1	0	...	...		
20	.823	44.0	40.8	76	.220	NW	0-1	3	K str.	...		

METEOROLOGICAL OBSERVATIONS MADE DURING THE

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
JANUARY 17, 1903.													At Port Stanley.
8	29.672	45.7	42.8	80	.243	Calm	0	10	K. str.	...	...		
12	.618	47.4	43.6	75	.241	NNE	1-2	10	K.	...	...		
20	.579	45.0	42.3	80	.239	NNW	0-1	6	K. str.	Cums.	...		
JANUARY 18.													At Port Stanley.
8	29.571	47.8	44.0	74	.245	W	0-1	1	K.	...	...	Very fine.	
16	.569	48.0	44.0	73	.243	N	0-1	1	K.	...	...	Very fine.	
JANUARY 19.													At Port Stanley.
8	29.658	47.4	46.0	90	.293	N	1-2	10	K.	...	...	q ⁰ on hills from 800 feet.	
9	.657	47.8	46.0	87	.288	N	2-3	10	K.	...	...	"	
10	.658	48.2	46.5	89	.295	N	2-3	10	K.	...	...	● at times.	
12	.672	48.8	47.0	87	.300	N	2-3	10	K.	...	...	[fall 0.08 in.	
20	.732	46.6	45.7	94	.297	NNE	2	10	Nim.	...	...	low on hills, with constant ●. Rain	
JANUARY 20.													At Port Stanley.
8	29.777	46.1	44.7	90	.279	NE	1-2	10	Nim.	...	...	on hills from 700 feet.	
10	.770	46.2	44.3	87	.270	NE	1-2	10	K.	...	...	on hills from 1200 feet.	
12	.756	44.8	43.1	87	.257	NE	1-2	10	Nim.	...	...	on hills from 1100 feet. ●	
16	.729	43.1	41.9	90	.252	ENE	1	10	Nim.	...	...	on hills. ● ²	
20	.703	44.3	43.2	92	.266	E	1-2	10	K. str.	...	...	on hills.	
JANUARY 21.													At Port Stanley.
8	29.564	43.1	41.0	83	.233	ESE	1	10	K.	...	...	on distant hills.	
10	.525	44.1	42.7	89	.258	ESE	2	10	K.	...	...		
14	.451	44.9	43.1	87	.256	SE	1-2	10	Nim.	...	...		
16	.432	45.8	43.6	84	.259	SE	1-2	10	K.	...	...		
20	.429	44.0	42.4	87	.252	S	2-3	10	Nim.	...	...	on hills from 1000 feet.	
Mdt.	.382	43.6	42.1	88	.250	SSE	1-2	10	K.	...	...	q ⁰ at times.	
JANUARY 22.													At Port Stanley.
8	29.373	46.0	45.3	95	.294	ESE	1-2	10	Nim.	...	...	● on hills from 800 feet, d ●.	
12	.391	45.8	44.1	88	.269	E	1	10	Nim.	...	...	on hills.	
18	.438	44.6	42.0	80	.237	ESE	1-2	10	Nim.	...	...		
JANUARY 23.													At Port Stanley.
8	29.366	45.0	41.9	77	.231	S	1-2	10	K.	...	...	d ●	
16	.331	46.0	43.2	80	.248	S	1-2	10	Nim.	...	...	d ● Rainfall 0.01 in.	
18	.354	45.0	42.7	83	.247	S	1-2	10	Nim.	...	...		
JANUARY 24.													At Port Stanley.
8	29.467	46.5	42.8	75	.234	SSW	2	10	K.	..	...		
14	.433	55.2	50.1	70	.303	W	2-3	8	K.	...	...		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
JANUARY 25, 1903.													At Port Stanley.
8	29.251	53.8	51.0	81	.337	W	2-3	6	K.	...	...	● at times, squally.	
20	.202	51.5	50.0	89	.341	NW	0-1	10	Nim.	...	...		
Mdt.	.084	51.0	49.7	91	.341	W	0-1	9	K. str.	...	...		
JANUARY 26.													At Port Stanley.
8	29.306	50.3	46.5	75	.273	W	1-2	9	K.	...	...		
10	.316	55.0	48.7	64	.274	W	3	5	K.	...	...		
11	.324	56.1	48.7	59	.267	WSW	3-4	3	K.	...	...		
12	.336	56.5	48.4	56	.257	WSW	3-4	7	K.	...	...		
13	.348	58.1	49.3	54	.261	WSW	2-3	7	K.	...	...		
14	.357	57.0	48.4	55	.252	WSW	1-2	8	K.	...	...		
15	.366	52.0	48.3	76	.294	SSW	1-2	7	K.	...	1		
20	.393	49.6	46.7	81	.284	WSW	2	1	K.	...	2		
22	.423	48.0	45.5	83	.274	SW	3	9	K.	...	3		
JANUARY 27.													At noon, lat. 52° 55' S. long. 55° 00' W.
8	29.562	45.6	44.6	93	.283	WNW	1-2	0	...	...	2	Ugly looking.	
12	.516	46.5	44.7	87	.274	W	3	6	...	Cir.	3		
16	.451	46.1	44.3	87	.271	WNW	2-3	10	...	Cir str.	2		
20	.362	45.7	43.0	81	.247	WNW	2-3	8	K. str.	Cir. K.	2-3		
Mdt.	.109	45.0	43.8	91	.271	WNW	2-3	1	K.	...	3		
JANUARY 28.													At noon, lat. 54° 35' S. long. 51° 50' W.
1	29.086	44.7	43.5	91	.269	NNW	3-4	0	.	...	3	 all round. gleaming. ∞ at horizon. round horizon. on sea all round. all round. not so thick. Sky clearing to W. g at times.	
2	.040	44.4	43.4	92	.269	NNW	2-3	5	Str.	...	3		
3	28.989	44.3	43.4	93	.270	NNW	2-3	0	...	...	3		
4	.951	44.5	44.1	97	.283	NNW	3	10	K.	...	3-4		
5	.909	44.2	44.0	98	.285	NNW	3	10	Str.	...	3-4		
5	.879	44.3	43.6	95	.275	NNW	3-4	10	Str.	...	3-4		
7	.848	45.0	43.8	91	.271	NW	3	10	Str.	...	3-4		
8	.793	45.0	43.8	91	.271	NW	1-2	10	Str.	...	4-5		
9	.739	45.2	43.8	90	.269	NNW	2	10	Str.	...	3-4		
10	.697	45.0	43.5	89	.264	NNW	2-3	10	Str.	...	3		
11	.658	44.9	43.3	88	.261	NNW	3	10	Str.	...	3-4		
12	.607	44.9	43.3	88	.261	NNW	3	10	Str.	...	3-4		
13	.567	44.4	43.3	91	.267	NNW	4	10	Nim.	...	3-4		
14	.542	44.0	43.2	94	.270	NNW	3-4	10	Nim.	...	3-4		
15	.511	43.6	43.1	96	.272	NNW	3-4	10	Nim.	...	3		
16	.483	43.2	42.8	96	.271	NW	2-3	10	Nim.	...	3-4		
17	.477	43.0	42.4	95	.264	WNW	2-3	10	K.	...	4		
18	.463	42.6	42.0	95	.260	WNW	2-3	10	K.	...	3-4		
19	.440	42.3	41.6	95	.255	NW	3	10	K.	...	4		
20	.426	42.1	41.3	93	.251	NW	3	10	K.	...	4		
21	.402	42.1	41.5	95	.255	NW	3-4	10	K.	...	4		
22	.384	42.7	42.1	95	.261	NW	3	10	Nim.	...	4		
23	.381	41.7	41.3	96	.256	NW	5	10	Nim.	...	4		
Mdt.	.358	42.0	40.1	86	.227	NW	4	10	K.	...	4		
Means.	28.651	43.8	42.8	92.9	.265	...	3.0	9.0	...	...	3.6		

METEOROLOGICAL OBSERVATIONS MADE DURING THE

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-8.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
JANUARY 29, 1903.													At noon, lat. 56° 10' S. long. 49° 20' W.
1	28.343	42.5	40.5	85	230	NW	4	3	K.	...	4-5	q at times.	
2	311	42.6	40.0	81	219	NW	5	10	K.	...	4-5		
3	283	41.4	39.5	86	222	NW	4-6	10	K.	...	5	q force 7-8 at times.	
4	206	40.1	38.1	84	208	NW	5	10	Str.	...	5	Iceberg passed.	
5	176	38.3	37.0	89	205	NW	7-8	10	Str.	...	5	●	
6	158	38.0	37.1	92	210	WNW	7-9	10	Nim.	...	5	q ↗.	
7	207	37.9	37.4	96	217	NW	5	10	Nim.	...	6	q ² up to 8.	
8	187	37.7	37.0	94	212	WNW	5	10	Str.	...	4-5		
9	168	37.8	37.0	93	210	W	6-7	10	Str.	...	5	Hove to. ↗	
10	238	36.5	35.3	90	193	W	6-7	10	Str.	...	5		
11	302	35.0	34.2	92	188	WSW	7-8	10	Str.	...	5	Sleet at times. ↗	
12	387	35.1	34.2	91	187	WSW	7-8	10	Str.	...	5	Sleet,  round horizon. ↗	
13	487	34.5	33.8	93	186	SW	7-8	10	Nim.	...	5-6	Sleet at times. ↗	
14	545	35.0	34.1	91	186	SW	8-10	10	K.	...	6	Sleet ↗.	
15	601	34.9	34.1	92	187	SW	8-10	10	K.	...	6-7	↗	
16	686	35.0	34.0	90	184	SW	8-10	10	K.	...	6	↗	
17	774	35.3	33.8	86	178	SW	4-6	10	K.	...	6	Wind fallen considerably.	
18	848	36.0	34.0	82	175	SW	4-5	10	K.	...	6		
19	873	35.3	33.8	86	178	SW	5-6	10	Str.	...	5	Clearing, ↗.	
20	903	35.8	34.0	84	177	SW	5	10	Str.	...	5	Still hove to.	
21	980	36.0	34.0	82	175	SW	4-5	10	Str.	...	5		
22	29.070	36.0	34.0	82	175	SW	4	10	Str.	...	5	Ship rolling very heavily.	
23	142	36.2	34.0	81	173	SW	3-4	10	Str.	...	5		
Mdt.	180	36.0	34.1	83	177	SW	3-4	10	Str.	...	5	Rainfall 0.05 in.	
Means.	28.544	37.0	35.6	87.7	194	...	5.9	9.7	...	...	5.2		
JANUARY 30.													At noon, lat. 56° 28' S. long. 47° 52' W.
1	29.221	36.4	34.2	81	175	SW	3-4	10	Str.	...	3-4		
2	238	36.3	35.0	89	190	SW	3	10	Str.	...	3-4		
3	248	36.1	35.2	92	196	SW	2	10	Str.	...	3	Chinks of blue.	
4	321	36.2	35.5	94	201	W	1	10	Nim. str.	...	2-3		
5	269	36.6	36.0	95	205	SW	1	10	K. str.	...	2-3		
6	283	36.9	36.2	94	205	SW	1	8	Str.	...	2-3	Clearing.	
7	281	38.0	37.4	95	216	SW	1	9	Str.	...	2-3		
8	299	37.2	37.0	98	218	W	1-2	10	Fog	...	4		
9	302	37.6	37.4	99	221	WSW	1-2	10	Fog	...	4		
10	309	36.4	36.2	98	211	W	1-2	10	Fog	...	4		
11	329	37.7	37.7	100	226	WNW	0-1	2	...	Cir. K.	3		
12	325	38.7	38.2	96	225	WSW	0-1	10	K. str.	...	3		
13	321	39.0	38.2	94	222	WNW	1-2	3	Str.	Cir.	3		
14	317	38.5	38.0	96	223	WNW	1-2	9	K. str.	...	3	 round horizon.	
15	311	38.3	37.9	97	223	NW	0-1	10	K. str.	...	2-3		
16	311	38.2	38.0	98	226	NW	0-1	10	Str.	...	2-3	 at horizon.	
17	302	38.1	37.7	96	221	NW	2	10	Str.	...	2-3	 "	
18	295	38.0	37.6	96	220	NW	1-2	10	Str.	...	2		
19	286	37.7	37.5	99	222	NW	1	10	Str.	...	1-2		
20	298	37.2	37.0	98	218	NW	1	10	Str.	...	1-2		
21	294	37.0	36.8	98	216	N	1	10	Str.	...	1	 on horizon.	
22	293	37.0	36.6	96	212	N	1	10	K. str.	...	1		
23	288	36.5	36.3	98	212	NW	1	6	K. str.	...	1	Rainfall 0.01 in.	
Mdt.	288	37.0	36.2	93	204	NW	1	9	K.	...	1	Passed close to large berg at 11.45p.	
Means.	29.292	37.4	36.8	95.4	213	...	1-3	9.0	...	...	2.5		

VOYAGE OF THE SCOTIA, 1902-1904.

17

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.		
JANUARY 31, 1903.											
At noon, lat. 58° 14' S. long. 45° 15' W.											
1	29.261	37.0	36.2	93	204	NW	1	10	K. str.	...	1
2	229	36.5	36.0	95	206	NW	1	10	K.	...	1
3	235	36.8	36.2	95	206	NW	0-1	10	K. str.	...	1
4	209	36.5	36.1	96	208	NW	1	9	K. str.	...	1
5	189	36.8	36.2	95	206	NW	1	10	Str.	...	1
6	181	36.3	36.2	99	212	NW	0-1	10	Fog	...	0-1
7	162	36.3	36.3	100	214	NW	0-1	10	Mist	...	0-1
8	162	36.7	36.7	100	218	WNW	0-1	10	Fog	...	0-1
9	157	36.8	36.8	100	218	WNW	0-1	10	Fog	...	0-1
10	151	37.2	37.2	100	222	NW	0-1	8	...	Cir. K.	0-1
11	139	37.4	37.4	100	223	NW	0-1	10	Mist	...	0-1
12	129	37.0	37.0	100	220	NW	0-1	10	Mist	...	0-1
13	125	37.0	37.0	100	220	NW	0-1	10	Mist	...	1
14	116	36.2	36.1	99	211	NW	1	10	Nim.	...	1
15	119	36.3	36.2	99	210	NW	1	10	Nim.	...	1
16	106	36.5	36.5	100	216	NW	0-1	10	Nim.	...	0-1
17	116	37.0	36.7	97	214	Calm	0	10	K. str.	...	0-1
18	126	37.0	36.7	97	214	NW	0-1	10	K.	...	0-1
19	099	37.0	36.7	97	214	Calm	0	10	Mist	...	0
20	103	37.1	37.1	100	221	Calm	0	10	Mist	...	0
21	116	37.1	37.0	99	219	Calm	0	10	Mist	...	0
22	125	35.1	35.0	99	203	SE	1-2	10	Nim.	...	0
23	142	34.0	33.8	98	192	SE	2	10	Nim.	...	0-1
Mdt.	153	33.1	33.0	99	187	SE	2	10	Nim.	...	0-1
Means.	29.152	36.4	36.3	98.2	212	...	0.7	9.9	...	...	0.6
FEBRUARY 1.											
At noon, lat. 59° 32' S. long. 43° 10' W.											
1	29.180	33.0	33.0	100	188	SE	2-3	10	Nim.	...	0-1
2	212	32.0	31.9	99	180	SE	2-3	10	Nim.	...	1
3	219	31.0	31.0	100	174	SE	1-2	10	Nim.	...	0
4	249	30.3	29.5	88	148	SE	3	9	K.	...	2
5	284	30.0	29.0	83	140	SE	2	10	K. str.	...	1
6	319	30.3	29.1	81	139	SSE	2	10	Str.	...	2
7	342	30.1	29.3	87	147	SSE	2	5	...	Cir. str., Cir. K.	2
8	358	30.0	29.0	83	140	S	0-1	8	K. str.	...	0-1
9	366	29.8	29.3	92	152	SSW	1-2	10	Str.	...	1
10	384	30.0	(29.5)	92	153	SSW	1-2	10	Str. K.	...	1
11	385	30.7	(30.2)	92	158	SSW	1-2	10	Str.	...	1
12	387	31.0	(30.5)	92	161	SSW	2-3	10	Str. & K.	...	1-2
13	387	30.9	(30.4)	93	161	SW	2-3	10	K.	...	1-2
14	384	30.4	29.1	80	137	SW	1-2	5	K.	...	1
15	383	30.5	29.0	78	134	SW	1-2	8	K.	...	1
16	372	30.7	29.3	80	138	SW	0	0	...	...	1
17	363	30.6	29.8	79	151	SW	1-2	0	...	...	1
18	359	30.4	29.0	79	135	SW	2	0	...	...	1
19	354	30.3	29.0	80	136	SW	1	2	K.	...	1
20	336	30.0	28.5	76	128	SW	1	2	K.	...	0-1
21	316	30.0	28.3	74	123	SW	1	1	K.	...	0-1
22	290	30.0	28.7	79	133	SW	0	3	K. str.	...	0
23	272	30.2	29.0	81	137	Calm	0	8	K. str.	...	0
Mdt.	241	30.5	29.4	84	143	Calm	0	10	K. str.	...	0
Means.	29.323	30.5	29.7	85.5	147	...	1.5	6.7	...	...	0.9
At noon, lat. 59° 32' S. long. 43° 10' W.											
*. Passed berg on port side about 300 yards at 1.8. * showers. * showers. 2 ice-bergs. Finners. 4 " Fine and bright. 3 " " ☉ shining. 5 bergs. N.N.W. swell. N.N.W. swell. N.N.W. swell. Cum at horizon. Cum at horizon. Precipitation 0.02 in. K. str. all over sky except southern [horizon].											

METEOROLOGICAL OBSERVATIONS MADE DURING THE

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.			Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
FEBRUARY 2, 1903.													At noon, lat. 60° 28' S. long. 43° 40' W.
1	29.212	31.0	29.3	76	133	Calm	0	10	K. str.	...	0	At edge of pack. Struck first piece of ice 1h.	
2	190	30.8	29.8	86	147	N	0-1	10	K. str.	...	0	Swell from N.W. [swell]	
3	152	31.6	30.4	83	150	N	1	10	Nim.	...	0	Loose ice all round. *. Slight N.W.	
4	114	31.5	31.0	94	166	N	0-1	9	Str.	Cir. str.	0-1	Loose pack ice all round. Some bergs.	
5	089	32.1	31.0	86	156	N	1	10	Str.	...	1	Some loose ice.	
6	074	32.1	31.8	96	176	NNE	1-2	10	Str.	...	1	5 ice-bergs.	
7	072	32.4	32.0	96	176	NNE	1-2	10	Str.	...	1		
8	051	33.8	32.2	83	163	NNE	1	10	Str.	...	1	Coasting along pack.	
9	041	32.2	32.0	98	179	NNE	0-1	10	Fog	...	0-1	Coasting along pack.	
10	032	31.8	31.6	98	176	NNE	0-1	10	Fog	...	0-1		
11	033	31.8	31.3	94	168	NW	0-1	10	Fog	...	0-1	* showers.	
12	037	32.4	31.8	93	171	NNW	0-1	10	Str.	...	0-1	In the pack.	
13	044	32.5	32.2	97	179	WSW	1	10	Nim.	...	0	* showers.	
14	029	32.2	32.0	98	179	W	1-2	10	K.	...	0	Steaming easy in open water.	
15	019	32.7	32.2	95	176	WSW	2-3	10	K.	...	0-1		
16	020	32.3	32.1	98	180	WSW	1-2	10	K.	...	0		
17	013	32.0	31.5	93	170	WSW	1-2	10	Str. mist	...	0-1	all round about 400 yards off.	
18	024	31.1	30.7	94	165	WSW	1	10	Low str.	...	0		
19	025	31.2	31.0	97	171	W	1-2	10	K.	...	0-1		
20	022	31.0	30.8	96	168	W	1	10	K.	...	0	In the pack.	
21	018	31.0	30.8	96	168	SW	0-1	10	K. str.	...	0	" "	
22	022	31.3	31.2	99	174	SW	2	10	K. str.	...	0	" "	
23	017	31.0	30.4	90	158	SW	2	10	Str.	...	0	" " g at times.	
Mdt.	027	31.0	30.3	89	156	SW	2	10	Str.	...	0	Clearing to windward.	
Means.	29.057	31.8	31.0	92.7	167		1.1	10.0			0.3		

FEBRUARY 3.													At noon, lat. 60° 23' S. long. 44° 00' W.
1	29.035	30.0	29.3	88	148	WSW	2	7	Str.	...	...	Clearing to W. and N.	
2	032	30.1	29.4	89	148	WSW	1-2	10	Str.	...	...		
3	028	30.0	29.7	95	158	W	1	10	Str.	...	...	South Orkneys to W.S.W.	
4	008	30.0	29.6	93	155	SW	2	10	Str.	...	...	Ice tight all round.	
5	004	30.0	29.4	90	150	SW	2	10	Str.	...	...	" "	
6	009	30.0	29.3	88	148	SW	2	10	Str.	...	...	" "	
7	000	29.9	29.1	86	145	SW	2-3	10	Str.	...	...	" "	
8	28.993	30.0	29.4	90	150	WSW	1-2	10	Str.	...	...	Water sky overhead and on the port	
9	985	30.8	29.8	86	147	SW	0-1	10	Str.	...	...	Steaming in pack to N. [quarter.	
10	992	30.8	29.7	84	144	W	0-1	10	Str.	...	...	A few bergs.	
11	994	31.3	30.0	82	145	SW	0-1	10	Str.	...	...	" " S. Orkneys bearing	
12	29.000	31.1	30.0	84	147	WSW	0-1	10	Str.	...	...	[W. x S. 1/2 S.	
13	004	32.0	30.6	82	149	W	1	10	Str.	...	0	In open water.	
14	28.994	32.0	31.8	97	177	Calm	0	10	Str.	...	0	Slight N. swell.	
15	997	31.0	30.0	85	148	SW	0-1	10	Str.	...	0	" "	
16	29.012	29.2	28.8	93	150	SW	1	10	Str.	...	0	Fog ahead.	
17	032	28.5	28.0	91	142	SSW	1-2	10	Str.	...	0		
18	046	27.9	27.0	82	125	SW	1	10	Str.	...	0	Cape Dundas bearing S.S.E.	
19	057	27.4	26.3	79	116	SSW	0-1	10	Str.	...	0	" " " S.S.E. 7800 yards.	
20	066	27.4	26.2	76	113	S	0-1	10	Str.	...	0		
21	074	27.1	26.1	80	115	SW	0-1	10	Str.	...	0		
22	083	26.5	25.2	72	103	S	1-2	10	Str.	...	0		
23	087	26.5	25.2	72	102	S	1-2	10	Str.	...	0	In open water, between land and pack ice.	
Mdt.	098	26.7	25.3	71	103	SSW	1-2	10	Str.	...	0	" " Pack ice drifting N.	
Means.	29.026	29.4	28.6	84.8	139	...	1.1	9.9	...	...	...		

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-8.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
FEBRUARY 4, 1903.												
At noon, lat. 60° 37' S. long. 44° 52' W.												
1	29.105	26.9	25.3	68	.099	SW	2-3	10	Str.	...	0	In pool of open water. Clouds breaking to S.
2	.112	27.0	25.7	73	.107	SW	2-3	10	Str.	...	0	
3	.115	26.5	25.1	73	.101	S	2-3	10	Str.	...	0	
4	.125	26.4	25.4	78	.112	S	2-3	9	Str.	Cir K.	0-1	Among loose ice, steaming.
5	.137	27.4	26.4	80	.118	S	1-2	8	K. str.	...	0-1	
6	.151	27.7	26.8	82	.124	SW	1	10	Str.	...	0-1	
7	.165	27.2	26.5	86	.126	SW	0-1	10	Str.	...	0-1	In the pack. In open pool, pack all round.
8	.176	27.0	26.4	87	.126	S	0-1	10	Str.	...	0-1	
9	.198	26.5	25.3	75	.107	SSE	2	10	Str.	...	0	
10	.211	27.1	25.7	72	.106	SW	1	10	K.	...	0	Fairly tight in pack.
11	.225	27.5	26.1	73	.107	S	0-1	10	K.	...	0	
12	.242	27.3	26.5	84	.124	SSE	1-2	10	K. str.	...	0	
13	.255	28.5	27.3	79	.122	SSW	1-2	10	K.	...	0	Fairly tight in pack.
14	.259	28.3	27.8	90	.140	SW	0-1	10	Str.	...	0	
15	.267	29.0	28.5	91	.145	SSW	0-1	10	Str.	...	0	
16	.291	28.7	28.0	87	.137	S	1-2	10	Str.	...	0	Fairly tight in pack.
17	.314	28.1	27.1	81	.123	SSW	1-2	10	Str.	...	0	
18	.332	28.0	26.7	73	.112	SSW	1-2	10	Str.	...	0	
19	.345	27.2	26.5	86	.126	SSW	1	10	Str.	...	0	Fairly tight in pack.
20	.368	26.3	26.0	94	.133	SSW	1-2	10	Str.	...	0	
21	.380	25.8	25.3	89	.115	SSW	1-2	10	Str.	...	0	
22	.410	25.8	25.3	89	.115	SW	1-2	10	Str.	...	0	Fairly tight in pack.
23	.416	26.0	25.7	93	.131	SSW	1-2	10	Str.	...	0	
Mdt.	.422	26.0	25.8	95	.134	SW	1-2	10	Str.	...	...	
Means.	29.251	27.2	26.3	82.4	.120	...	1.4	9.9	...	...	0.1	
FEBRUARY 5.												
At noon, lat. 61° 06' S. long. 43° 40' W.												
1	29.422	26.0	25.8	95	.134	SW	1-2	10	Str.	...	0	In pack. Threatening * at times. Air [damp.
2	.427	26.1	25.8	93	.132	SSW	1-2	10	Str.	...	0	
3	.436	26.1	26.0	98	.138	S	2-3	10	Str.	...	0	
4	.449	26.6	26.4	96	.138	SW	2-3	10	Str.	...	0-1	Ice close. Fairly heavy. [bearing N.W. Cape Dundas
5	.458	26.8	26.3	90	.130	SW	2	10	Str.	...	0-1	
6	.476	27.9	27.0	82	.125	SW	1	10	Str.	...	0	
7	.486	27.1	26.5	87	.128	SW	1	10	Str.	...	0	Steaming among loose ice. Steaming in open pool.
8	.497	27.4	27.2	96	.143	WSW	0-1	10	Str.	...	0	
9	.503	27.0	26.3	85	.123	WSW	0-1	10	Str.	...	0	
10	.513	26.8	26.3	90	.130	WSW	0-1	10	Str.	...	0	Ice closer in. " " ☉ gleaming.
11	.509	27.3	26.8	89	.133	W	0	10	Str.	...	0	
12	.526	27.4	26.4	80	.118	Calm	0	10	Str.	...	0	
13	.542	27.8	26.7	79	.119	Calm	0	10	Str.	...	0	S. Orkneys on port quarter. " " to S.
14	.558	27.7	26.7	80	.122	S	0-1	10	Str.	...	0	
15	.558	29.3	28.0	78	.126	Calm	0	10	Str.	...	0	
16	.573	29.0	27.3	72	.113	WNW	0-1	10	Str.	...	0	S. Orkneys to S.W. x S. Northerly swell. Clear of pack.
17	.569	29.1	27.8	78	.124	NNW	1	10	Str.	...	0	
18	.567	29.6	27.8	72	.117	NNW	0-1	10	Str.	...	0	
19	.580	29.0	28.0	82	.130	Calm	0	10	Str.	...	0	Orkneys bearing S.S.W.
20	.592	30.3	29.0	80	.136	N	0-1	10	Str.	...	0	
21	.594	29.8	27.7	68	.113	NNW	0-1	10	Str.	...	0	
22	.599	28.7	27.0	71	.111	NNW	0-1	10	Str.	...	0	Ice blink on starboard quarter.
23	.612	28.1	26.5	71	.109	N	0-1	10	Str.	...	0	
Mdt.	.598	28.3	26.7	71	.111	N	0-1	10	Str.	...	0	
Means.	29.527	27.9	26.9	82.6	.125	...	0.8	10.1	...	...	0.0	

METEOROLOGICAL OBSERVATIONS MADE DURING THE

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.		
FEBRUARY 6, 1903.											
At noon, lat. 60° 10' S. long. 42° 35' W.											
1	29.601	28.5	27.0	74	.114	N	0-1	10	Str.	...	0
2	.601	28.6	27.3	78	.120	N	0-1	10	Str.	...	0
3	.591	29.0	27.5	75	.118	N	0-1	10	Str.	...	0
4	.569	30.6	28.5	70	.121	NE	0-1	10	Str.	...	0
5	.591	31.0	29.0	72	.127	ENE	1	10	Str.	...	1
6	.594	31.4	29.7	77	.137	NE	1	10	Str.	...	1
7	.594	31.3	29.8	79	.140	ENE	1	10	Str.	...	1
8	.599	32.0	30.1	76	.139	E	0-1	10	Str.	...	0-1
9	.597	32.1	31.8	96	.176	ENE	0-1	10	Str.	...	0
10	.601	32.5	30.1	73	.135	NE	1	10	Str.	...	1
11	.610	33.0	30.5	73	.138	ENE	2-3	9	K. str.	...	1
12	.613	33.0	30.5	73	.138	ENE	2-3	10	K. str.	...	1
13	.622	33.0	30.7	75	.141	N	1-2	10	K. str.	...	0-1
14	.618	33.1	31.4	81	.154	NNE	2	10	K.	...	1
15	.627	33.0	31.1	79	.149	N	1-2	10	K.	...	0
16	.639	33.0	31.2	80	.151	N	1	10	Str.	...	0
17	.632	32.8	31.9	91	.168	NE	1-2	10	Str.	...	0
18	.628	31.9	30.7	84	.153	N	0-1	10	Str.	...	0
19	.622	32.0	30.8	84	.153	NNW	1	10	Str.	...	0
20	.626	31.8	30.8	86	.156	NE	1	10	Str.	...	0
21	.625	31.4	30.4	86	.153	NNE	1	10	Str.	...	0
22	.606	31.2	30.3	87	.153	NE	1-2	10	Str.	...	0
23	.607	31.4	30.4	86	.153	NNE	2-3	10	Str.	...	0
Mdt	.595	31.3	31.0	96	.169	NE	1-2	10	Nim.	...	0
Means.	29.609	31.6	30.1	80.5	.144	...	1.2	10.0	...	...	0.3
FEBRUARY 7.											
At noon, lat. 60° 03' S. long. 39° 44' W.											
1	29.575	31.3	31.0	95	.169	NNE	0-1	10	Nim.	...	0
2	.569	31.2	31.0	97	.171	NNE	2	10	Nim.	...	0
3	.561	31.3	31.1	97	.171	NNE	1	10	Mist	...	0
4	.537	31.0	30.8	96	.168	N	1	10	Mist	...	0
5	.537	31.1	31.0	99	.173	N	0-1	10	Mist	...	0
6	.542	31.0	30.8	96	.168	NW	1-2	10	Mist	...	0
7	.535	30.6	30.4	97	.166	NW	1-2	10	Mist	...	0-1
8	.517	30.0	30.0	100	.167	W	0-1	10	Fog	...	0
9	.502	28.8	28.8	100	.159	NW	0-1	10	Fog	...	0
10	.491	29.9	29.7	97	.161	NNW	0-1	10	Fog	...	0
11	.480	30.2	30.0	97	.163	NNW	0-1	10	Fog	...	0
12	.479	30.2	30.0	97	.163	N	0-1	10	Fog	...	0
13	.480	30.6	30.4	97	.166	NNE	1-2	10	Mist	...	0
14	.444	31.0	30.7	95	.166	N	1-2	10	Mist	...	0
15	.433	31.0	30.7	95	.166	N	1-2	10	Nim.	...	0
16	.407	31.4	31.1	96	.170	NNW	1-2	10	Nim.	...	0
17	.375	32.0	31.5	93	.170	N	3-4	10	Nim.	...	0
18	.355	32.1	31.8	96	.176	N	3-4	10	Mist	...	0
19	.338	32.1	31.8	96	.176	NNW	2-3	10	Mist	...	0
20	.318	32.3	32.0	97	.178	NNW	3	10	Mist	...	0
21	.313	32.2	32.0	98	.179	NNW	2-3	10	Nim.	...	0
22	.290	32.4	32.0	96	.176	NNW	3	10	Nim.	...	0
23	.284	32.2	32.1	99	.182	N	3	10	Nim.	...	0
Mdt.	.261	32.0	31.8	97	.177	NNW	2-3	10	Nim.	...	0
Means.	29.443	31.2	30.9	96.8	.170	...	1.7	10.0	...	...	0.0

VOYAGE OF THE SCOTIA, 1902-1904.

21

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
FEBRUARY 8, 1903.												At noon, lat. 59° 44' S. long. 36° 40' W.
1	29.259	32.0	31.9	99	180	NNW	2	10	Nim.	...	0	●
2	243	32.0	31.8	97	177	N	1	10	Nim.	...	0	●
3	231	31.2	31.2	100	176	NNW	1	10	Nim.	...	0	Sleet.
4	208	31.3	31.2	99	174	NW	1	10	Mist	...	0-1	Sailing through loose ice. 
5	213	31.0	31.0	100	174	NNW	2	10	Mist	...	0-1	" " "
6	216	30.0	30.0	100	167	WSW	2	10	Mist	...	0	" " "
7	223	28.5	28.4	98	154	SW	2	10	Fog	...	1	No ice since 6 hours. 
8	213	28.6	28.4	96	152	SW	1-2	10	Str.	...	1	round horizon.
9	212	28.8	28.5	95	151	SW	2	10	Str.	...	1	☉ gleaming, clearing. [starboard.
10	215	29.8	29.2	90	149	WSW	2	10	Str.	...	1	Sailing in open water. Pack 6 miles to
11	214	30.3	30.0	95	161	SW	2-3	10	Str.	...	1	2 bergs on port qr., none from 6 a.m. 7th
12	197	30.2	30.0	97	163	SW	1-2	10	Str.	...	1	☉ gleaming. [to 7 a.m. to-day.
13	211	31.1	30.5	91	160	W	1-2	10	K.	...	1	
14	209	32.0	31.1	88	160	WSW	1	6	...	Cir. K.	0	☉ shining at times.
15	196	32.1	31.7	95	174	WNW	1-2	10	K.	...	0	∞ at horizon.
16	193	32.2	31.5	91	168	WNW	1-2	10	K.	...	1	Large berg on port quarter.
17	191	32.1	31.3	90	164	WNW	1-2	10	K.	...	0-1	Blue sky to N.
18	175	31.8	31.1	91	163	NNW	1-2	10	K.	...	0	Sailing through loose ice.
19	169	31.7	31.0	91	162	NNW	1-2	10	K.	...	0	
20	160	31.5	31.0	94	166	NNW	1-2	10	Nim.	...	0	*
21	152	31.2	31.0	97	171	NW	2	10	K.	...	0	
22	142	31.0	30.5	92	161	N	1-2	10	K.	...	0	
23	135	31.0	30.3	89	156	NNW	1	7	K.	...	0	
Mdt.	131	31.0	30.3	89	156	NNW	1-2	10	K.	...	0	
Means.	29.196	30.9	30.5	94.3	164	...	1.6	9.7	...	...	0.4	

FEBRUARY 9.												At noon, lat. 59° 42' S. long. 34° 13' W.
1	29.117	31.6	31.0	92	164	NW	2-3	10	K.	...	0	
2	109	31.0	30.2	87	153	NNW	2	10	Str.	...	0	Sailing for last few hours through fairly
3	109	30.7	30.0	90	154	NNW	1	10	Str.	...	0	[open water.
4	094	30.6	30.1	92	159	N	1	10	Mist	...	0	* 
5	109	30.6	30.2	94	161	N	0-1	10	Nim.	...	0	* 
6	132	30.7	30.2	93	159	Calm	0	10	Nim.	...	0	* ⁰ one berg.
7	144	31.0	30.5	92	161	Calm	0	10	Nim.	...	0	* ⁰
8	154	30.9	30.3	94	158	Calm	0	10	Str.	...	0	* ⁰ . ∞ round horizon.
9	172	32.0	31.6	94	172	Calm	0	10	Str.	...	0	* ⁰ . ∞ "
10	200	31.7	31.0	91	162	SSW	0-1	10	Str.	...	0	*
11	215	31.6	31.0	92	164	SW	1	10	Str.	...	0	
12	243	30.6	30.6	100	171	SSW	1	10	Str.	...	0	Sailing and steaming through pack since
13	262	31.0	30.7	95	166	Calm	0	10	Str.	...	0	* ⁰ [2 a.m.
14	285	30.5	30.3	97	165	Calm	0	10	Str.	...	0	
15	304	30.4	30.2	97	164	SSW	1-2	10	Mist	...	0	
16	335	30.5	30.2	95	162	S	1	10	Nim.	...	0	*
17	357	30.5	30.3	97	165	S	2-3	10	Str.	...	0	
18	376	30.2	29.7	92	155	S	2	10	Str.	...	0	
19	408	29.7	29.1	90	149	S	2-3	10	Str.	...	0	* ⁰
20	443	29.2	28.5	88	142	S	2	10	Str.	...	0	
21	463	29.0	28.3	88	139	S	3	9	K. Str.	...	0	
22	479	28.0	27.3	86	131	S	2-3	10	Str.	...	0	☉ gleaming.
23	490	28.7	28.0	87	137	SSE	3	10	Str.	...	0	
Mdt.	509	28.2	27.7	90	139	S	2	10	Str.	...	0	Sailing and steaming through pack since
Means.	29.271	30.4	29.9	92.2	156	...	1.3	10.0	...	...	0.0	noon. A good deal of open water at

METEOROLOGICAL OBSERVATIONS MADE DURING THE

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum	Vapour Pressure.	Wind, True.			Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
FEBRUARY 10, 1903.													At noon, lat. 60° 05' S. long. 32° 10' W.
1	29.521	28.6	27.9	88	.137	S	2-3	10	Str.	...	0	Steaming and sailing through pack ice.	
2	.524	28.2	28.0	94	.148	S	2-3	10	Str.	...	0	" " "	
3	.523	28.2	27.9	95	.146	SSW	1	10	K. str.	...	0	" " "	
4	.527	28.3	28.0	95	.146	SSW	2-3	10	Str.	...	0-1	Steaming through hole in pack ice.	
5	.537	28.2	27.8	92	.142	SSW	1-2	10	Str.	...	0-1	" " "	
6	.539	28.1	27.5	88	.135	SSW	2	9	K. str.	...	0-1	" " " W. swell	
7	.544	28.0	27.4	87	.134	SSW	2	9	K. str.	...	0-1	" " "	
8	.541	28.6	28.0	89	.140	S	0-1	10	Str.	...	0	Steaming through loose ice.	
9	.530	28.5	27.9	88	.139	SSW	0-1	10	Str.	...	0	" " "	
10	.522	28.9	28.1	86	.136	SW	0-1	10	Str.	...	0	☉ gleaming. " "	
11	.506	30.0	29.0	83	.140	SW	0-1	10	Str.	...	0	Large berg ahead.	
12	.510	31.8	30.0	77	.140	Calm	0	9	Str.	...	0	☉ shining.	
13	.520	32.1	30.6	81	.148	Calm	0	9	K.	...	0	☉ " "	
14	.476	33.0	32.0	89	.167	Calm	0	3	K.	...	0	☉ " "	
15	.443	31.5	30.1	81	.145	Calm	0	0	...	...	0	A little cirrus at horizon.	
16	.421	33.2	31.5	81	.155	Calm	0	0	...	...	0		
17	.403	29.6	28.0	74	.122	NNE	1	2	K. str.	Cir str.	0		
18	.391	28.7	27.7	83	.129	NNE	1-2	10	K.	...	0		
19	.345	28.1	27.1	81	.123	N	1	9	K. str.	Cir str.	0		
20	.324	28.3	27.3	81	.126	NNE	1	10	K. str.	Cir str.	0		
21	.299	27.7	27.0	86	.130	NE	0-1	8	...	Cir str.	0		
22	.250	27.7	27.0	86	.130	NE	3-4	10	Str.	...	0	q at times.	
23	.204	28.0	26.6	73	.112	NNE	3-4	10	Str.	...	0		
Mdt.	.175	28.2	27.1	79	.122	NE	3-4	10	Str.	...	0	q°. Fixed in pack for night.	
Means.	29.441	29.2	28.3	84.9	.137	...	1.3	8.2	...	...	0.1		
FEBRUARY 11.													At noon, lat. 60° 03' S. long. 32° 31' W.
1	29.132	28.1	27.1	81	.123	NE	4-5	10	Str.	...	0		
2	.090	28.0	27.0	80	.122	NE	3-4	10	Str.	...	0		
3	.072	28.0	27.1	82	.125	NE	4-5	10	Nim.	...	0	*	
4	.022	28.0	27.1	82	.125	NE	5	10	Nim.	...	0	*. Beset in fairly heavy ice. Have not	
5	.002	28.0	27.0	80	.122	NE	5	10	Nim.	...	0	[moved since 22 ^h yesterday.	
6	28.987	28.4	27.4	81	.126	NNE	4	10	Str.	...	0	q. Driving to S.E.	
7	.979	28.8	28.0	86	.135	NE	6	10	Str.	...	0		
8	.956	29.0	28.3	88	.139	NE	3-4	10	Str.	...	0	In open water with ice round.	
9	.956	29.8	28.8	83	.139	NNE	5	10	Str.	...	0	Steaming in loose pack.	
10	.970	30.2	29.2	84	.142	ENE	3	10	Str.	...	0	Steaming in open water.	
11	.973	30.5	29.7	88	.148	ENE	3	10	Str.	...	1	☉ shining.	
12	.981	30.2	29.5	89	.150	NE	3-4	10	Str.	...	0-1		
13	.996	30.4	29.7	89	.151	NE	4-5	10	Str.	...	0-1		
14	29.025	30.3	29.6	89	.150	E	3-4	10	K.	...	0-1		
15	.053	30.5	29.6	86	.147	ESE	3-4	10	Str.	...	0-1		
16	.080	30.8	29.9	87	.150	E	3	10	Str.	...	0-1		
17	.115	30.6	29.7	88	.148	E	2	10	Str.	...	0		
18	.149	30.5	29.5	85	.145	E	3	10	Str.	...	0-1		
19	.183	30.4	29.7	89	.151	ESE	2	10	K. str.	...	0		
20	.206	30.2	29.6	90	.152	E	2	10	Str.	...	0		
21	.239	30.3	29.8	93	.156	E	2	10	Str.	...	0		
22	.263	30.2	29.7	92	.153	E	2	10	Str.	...	0	Slight swell from N.	
23	.289	30.0	29.5	92	.153	ENE	2	10	Str.	...	0-1	" " "	
Mdt.	.302	29.7	29.1	90	.149	ENE	2	8	K.	0	0-1	" " " shining. Pre-	
Means.	20.084	29.6	28.8	86.4	.142	...	3.4	9.9	...	...	0.2	precipitation 0.02 in.	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
FEBRUARY 12, 1903.													At noon, lat. 59° 49' S. long. 31° 32' W.
1	29.335	30.0	29.5	92	.153	Calm	0	10	Str.	...	0	Slight swell. Loose pack all round. Well marked N.N.W. swell. Steaming through pack. N.W. swell.  " "  " "  Swell hardly perceptible.  Rain-band 2.5.  d ●°. V° 0 * *. Perceptible swell.	
2	.366	30.0	29.3	88	.148	Calm	0	10	Str.	...	0		
3	.367	30.0	29.3	88	.148	Calm	0	10	Str.	...	0		
4	.366	30.0	29.5	92	.153	NE	0-1	10	Str.	...	0-1		
5	.379	29.8	29.4	94	.155	NE	1	10	Str.	...	0		
6	.391	30.1	29.7	94	.156	NNE	0-1	10	Mist	...	0		
7	.397	30.0	29.7	95	.158	NNE	1	10	Fog	...	0-1		
8	.400	30.4	30.0	94	.159	NNE	0-1	10	Str.	...	0		
9	.400	30.5	30.0	93	.158	NNE	0-1	10	Str.	...	0		
10	.382	31.0	30.1	86	.151	N	0-1	10	Str.	...	0		
11	.388	30.3	29.9	93	.159	NE	1	10	Str.	...	0-1		
12	.388	31.4	31.0	95	.167	NE	0-1	10	K.	...	0		
13	.358	30.8	30.3	93	.160	NE	1	10	Mist	...	0		
14	.330	30.4	30.1	96	.162	NE	1-2	10	Mist	...	0		
15	.319	29.9	29.5	94	.156	NE	1-2	10	Nim.	...	0		
16	.292	29.7	29.3	94	.154	NE	2	10	Str.	...	0		
17	.261	30.3	30.0	95	.161	NNE	2	10	Str.	...	0		
18	.227	31.1	30.7	94	.165	NNE	1-2	10	Str.	...	0		
19	.189	31.0	30.3	89	.156	N	3-4	10	Str.	...	0-1		
20	.155	30.1	29.8	96	.159	NNE	4	10	Str.	...	0		
21	.101	30.0	29.6	93	.155	NNE	4	10	Nim.	...	0		
22	.058	30.0	30.0	100	.167	NNE	4-5	10	Str.	...	0		
23	28.995	30.1	30.0	99	.165	NE	3-4	10	Str.	...	0		
Mdt.	.929	29.9	29.9	100	.166	NE	4-5	10	Nim.	...	0		
Means.	29.282	30.3	29.9	93.6	.158	...	1.6	10.0	...	...	0.1		
FEBRUARY 13.													At noon, lat. 59° 43' S. long. 30° 44' W.
1	28.862	30.0	29.9	98	.164	NE	4-5	10	Nim.	...	0	†* †* †*. Perceptible swell. q V. d ●. In pack ice V. ●°V. In pack ice.  Slight swell from N.N.E.  Steaming in loose pack. d ●°. d ●°. 0-1 1 1 d ●. d ●°. 0 Precipitation 0.04 in.	
2	.797	30.0	30.0	100	.167	NNE	4-5	10	Nim.	...	0-1		
3	.750	30.2	30.0	97	.163	NNE	4	10	Nim.	...	0		
4	.680	31.0	30.7	95	.166	N	4-5	10	Str.	...	0-1		
5	.653	31.5	31.1	95	.168	N	4	10	Nim.	...	0-1		
6	.625	32.0	31.5	93	.170	N	3-4	10	Str.	...	0-1		
7	.595	32.0	31.7	96	.175	N	3-4	10	Nim.	...	0-1		
8	.563	32.0	31.8	97	.177	N	3	10	Mist	...	0-1		
9	.538	32.8	31.9	90	.168	N	3-4	10	Mist	...	0-1		
10	.520	32.5	32.0	94	.175	N	3-4	10	Str., mist	...	0-1		
11	.517	32.8	32.2	93	.175	N	3-4	10	Str.	...	0-1		
12	.506	32.8	32.2	93	.175	N	3	10	Str.	...	0-1		
13	.519	32.8	32.3	93	.177	NNW	3	10	Str.	...	0-1		
14	.512	32.8	32.4	96	.179	N	3-4	10	Nim.	...	0		
15	.500	33.0	32.4	93	.175	NNW	3-4	10	Nim.	...	0		
16	.494	32.7	32.2	94	.177	NW	3	10	Str.	...	0		
17	.504	32.7	32.0	92	.172	NW	3-4	10	K.	...	0-1		
18	.500	32.3	31.3	88	.162	NW	3-4	10	K.	...	1		
19	.499	32.5	31.4	87	.161	NW	3-4	10	Str.	...	1		
20	.514	32.0	30.9	86	.155	NW	2-3	10	Nim.	...	0-1		
21	.497	32.2	31.0	85	.155	NNW	3	10	Str.	...	0-1		
22	.491	32.1	31.1	87	.159	N	3	10	Nim.	...	0-1		
23	.475	32.1	31.1	87	.159	NNW	2-3	10	Str.	...	0		
Mdt.	.456	32.2	31.1	86	.158	N	3	10	Str.	...	0-1		
Means.	28.565	32.0	31.4	92.3	.168	...	3.4	10.0	...	...	0.4		

METEOROLOGICAL OBSERVATIONS MADE DURING THE

Hour.	Bar. at 82° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure	Wind, True.		Cloud.			Amount of Sea, 0-8.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
FEBRUARY 14, 1903.													At noon, lat. 59° 33' S. long. 27° 37' W.
1	28.446	32.1	31.3	90	.164	NNW	3-4	10	Nim.	...	0-1	* [open water	
2	.433	32.0	31.3	91	.165	NNW	3-4	10	Nim.	...	1	*°. Well marked swell from N. In	
3	.432	32.0	31.1	88	.160	NNW	3	10	Nim.	...	1	*. In open water. gleaming.	
4	.429	32.0	31.2	89	.162	NW	4	10	Str.	...	1	Sailing through pack.	
5	.448	31.8	31.0	90	.160	NW	4-5	10	Str.	...	1	" " loose pack.	
6	.463	31.7	30.8	88	.158	NW	4	10	Str.	...	1	" " " "	
7	.487	31.9	31.0	88	.159	NW	3-4	10	Str.	...	1-2	N.W. swell. Out of pack.	
8	.496	32.0	31.0	87	.157	NNW	3	10	Str.	...	1		
9	.524	32.0	31.8	97	.177	NW	3	10	Str.	...	1	Sailing along edge of pack.	
10	.537	31.8	30.8	86	.156	NW	3	10	Str.	...	1	Sailing in open water.	
11	.548	32.0	31.0	87	.157	NW	3	10	Str.,nim.	...	1-2		
12	.569	32.0	30.9	86	.155	WNW	3	10	Mist	...	2-3	Swell from W.N.W.	
13	.581	32.2	31.0	85	.155	WNW	3	10	K.	...	2-3		
14	.595	32.2	30.0	74	.135	NW	3	10	K.	...	2-3		
15	.591	32.0	31.0	87	.157	WNW	3	10	K.	...	1-2		
16	.595	31.9	30.7	84	.153	NW	2	10	K.	...	1-2		
17	.602	32.0	30.5	81	.147	NW	3	10	K.	...	2		
18	.596	32.0	30.6	82	.149	WNW	3	10	K.	...	1-2		
19	.593	31.7	30.6	85	.153	NW	2-3	10	K. str.	...	2		
20	.581	31.5	30.6	88	.156	NW	3	10	K.	...	3		
21	.582	31.2	30.3	87	.154	NW	3-4	10	K.	...	2-3		
22	.580	31.3	30.0	82	.145	NW	3-4	10	K.	...	2-3		
23	.578	31.0	30.0	85	.148	NW	2-3	5	K.	...	1-2	Shining brilliantly. [all round.	
Mdt.	.568	31.0	29.9	84	.146	NW	3	10	K.	...	0	In ice. Struck floe at 11.45. Clear water	
Means.	28.531	31.8	30.8	86.3	.155	..	3.2	9.8	...	...	1.5		
FEBRUARY 15.													At noon, lat. 61° 37' S. long. 26° 10' W.
1	28.552	31.0	29.9	84	.146	NW	2-3	10	K.	...	1-2		
2	.533	30.5	29.4	84	.143	NW	3	9	K.	...	1	Main body of pack to W. ; half mile off.	
3	.523	30.8	29.6	82	.142	NNW	2-3	10	K.	...	0-1		
4	.487	30.4	29.8	92	.154	NNW	2	6	K.	...	0-1		
5	.487	30.3	29.7	91	.153	NNW	2	10	K.	...	1	Stream of pack ice.	
6	.488	30.3	29.8	93	.156	NNW	2	10	Str.	...	1	Streams of pack but no compact ice.	
7	.488	30.3	29.7	91	.153	N	2	10	Str.	...	1	" " " "	
8	.480	30.0	29.3	88	.148	N	2	10	Str.	...	0	Sailing among loose pack.	
9	.473	30.0	29.2	86	.145	NW	1-2	10	Str.	...	0-1	In open water.	
10	.488	30.0	29.2	86	.145	NNW	2	10	Str.	...	0-1	*°	
11	.489	30.6	29.8	89	.150	NNW	1-2	10	Str. K.	...	0-1	*. Swell from N.	
12	.493	30.4	29.8	91	.154	NW	1-2	10	Nim.	...	0-1	*°	
13	.511	30.4	29.8	91	.154	NNW	2-3	10	Nim	...	0-1	*°	
14	.501	30.4	29.8	91	.154	NW	2-3	10	Nim.	...	1	*. Rain-band 3.	
15	.516	30.3	30.0	96	.161	NW	2	10	Nim.	...	1	*°	
16	.517	30.3	30.0	96	.161	NW	2-3	10	Nim.	...	0-1	*°	
17	.521	30.4	30.0	94	.159	NW	1-2	10	Nim.	...	0-1	*°	
18	.554	30.3	30.0	96	.161	NW	1	10	Nim.	...	0-1	*. Fragment of halo of 22° with two mock suns, Cir. K. radiating from N.N.W. to S.S.E. 22° 45'	
19	.591	30.4	30.0	94	.159	WNW	1-2	9	K.	...	0-1	In open water for some hours.	
20	.626	30.2	30.0	97	.163	WSW	2	10	K.	...	0-1	Swell from S.E.	
21	.656	30.0	29.1	85	.143	WSW	2	10	Nim.	...	0-1	* " "	
22	.678	30.0	29.2	86	.145	WSW	1-2	10	K.	...	0-1	* " "	
23	.717	30.1	29.1	84	.142	SW	1-2	10	Nim.	...	0-1	*°	
Mdt.	.727	30.2	29.3	86	.145	SW	1-2	10	Nim.	...	0-1	*. Precipitation 0.01.	
Means.	28.546	30.3	29.6	89.7	.152	...	1.9	9.8	...	...	0.6		

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Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
FEBRUARY 18, 1903.												At noon, lat. 66° 05' S. long. 23° 46' W.
1	28·810	30·0	29·0	83	·140	ENE	4	10	K.	...	3	q at times. Passed 3 bergs since mid-
2	·780	29·5	28·8	88	·144	ENE	4	10	K.	...	3	g. [night.
3	·766	29·0	28·1	84	·133	E	4-5	10	K.	...	3-4	g.
4	·718	29·2	28·1	81	·130	ENE	6	10	Str.	...	3-4	No ice in sight. //
5	·705	29·3	28·2	82	·131	E	6	10	Str.	...	4	" " //
6	·698	29·2	28·0	79	·127	E	6	10	K. str.	...	4	" " //
7	·693	29·1	28·0	81	·129	E	6	10	Str.	...	4-5	" " //
8	·679	30·0	28·6	77	·130	E	6	10	Str.	...	4-5	" " //
9	·675	29·9	28·3	75	·125	E	6	10	Str.	...	5	Several small bergs. //
10	·696	30·0	28·3	74	·123	E	6	10	Str.	...	5	1 berg. //
11	·689	30·0	28·4	75	·125	E	6	10	Str.	...	5	" " //
12	·709	30·0	28·8	80	·135	E	6	10	Str.	...	4-5	No ice. //
13	·719	30·2	29·0	81	·137	E	4	10	K.	...	4	" "
14	·726	30·5	29·1	79	·136	E	3-4	10	K.	...	4	" "
15	·757	30·5	29·4	84	·143	E	3-4	10	K.	...	4	" "
16	·765	30·7	29·7	85	·146	E	3-4	10	K.	...	3-4	" "
17	·785	31·0	29·8	82	·143	ESE	3-4	10	K.	...	3	Patches of blue overhead.
18	·812	31·0	29·7	81	·141	ESE	3	10	K.	...	3	" "
19	·821	31·0	30·0	85	·148	ESE	3	10	K.	...	2-3	" "
20	·834	31·0	29·4	77	·135	ESE	3	10	K.	...	2-3	" "
21	·862	31·1	29·5	77	·136	ESE	2-3	10	K.	...	2-3	" "
22	·887	31·1	29·9	83	·145	ESE	2-3	10	K.	...	2	" "
23	·900	31·0	29·6	79	·139	ESE	2-3	9	K.	...	2-3	Stars and moon gleaming.
Mdt.	·917	30·4	29·1	79	·137	ESE	1-2	10	K.	...	2	" "
Means.	28·767	30·2	28·9	80·5	·136	...	4·5	10·0	...	...	3·5	

FEBRUARY 19.												At noon, lat. 68° 33' S. long. 24° 31' W.
1	28·928	30·1	29·3	73	·122	ESE	1-2	10	K.	...	2-3	
2	·948	30·0	29·1	85	·143	ESE	1-2	10	K.	...	1-2	
3	·957	30·0	29·4	90	·150	ESE	1-2	10	K.	...	1-2	Passed through quantity loose ice.
4	·962	30·0	29·6	93	·155	ENE	1-2	6	Str.	Cir. K.	2	2 bergs.
5	·979	30·0	28·7	79	·133	ESE	2	6	Str.	Cir.	2	
6	·998	29·7	28·1	75	·123	SE	2	5	...	Cir. K.	2	1 berg.
7	29·010	29·9	28·4	76	·127	ESE	1-2	8	...	Cir. K	1	1 "
8	·007	30·0	29·0	83	·140	ENE	0-1	9	Str.	...	1	1 "
9	·014	29·9	28·9	83	·140	ENE	1	9	Str.	...	1	1 "
10	·022	29·7	28·3	78	·128	E	0-1	9	Str.	...	1	
11	·053	29·6	28·2	78	·126	ESE	1	10	K.	...	1-2	Swell.
12	·037	29·5	28·7	78	·142	E	1	10	K.	...	1-2	" "
13	·044	29·3	28·0	78	·126	ESE	1-2	10	K.	...	1-2	N.E. swell. A few pieces of ice.
14	·054	29·7	28·2	76	·125	ESE	1-2	10	K. str.	...	1-2	N.E. " No bergs.
15	·052	29·7	28·1	75	·123	SE	1	10	K.	...	1-2	N.E. " 1 small berg.
16	·054	29·8	28·2	75	·123	SE	1	10	K.	...	1-2	N.E. " No ice in sight.
17	·059	29·0	(28·0)	82	·130	SE	0-1	10	K.	...	1-2	N.E. " No bergs.
18	·055	28·7	27·7	83	·129	SE	1	10	Nim.	...	1	N.E. " * at times.
19	·050	27·8	27·1	86	·131	SE	0-1	10	Nim.	...	1-2	N.E. " * small granular.
20	·050	27·1	26·7	91	·135	SE	1	10	K. str.	...	1	N.E. " [ice.
21	·053	26·3	25·9	92	·130	S	1-2	10	Nim.	...	1	N.E. " *. Passed through brush
22	·049	24·7	24·0	83	·109	S	1	10	K.	...	1	[to S. and S.W.
23	·052	23·3	23·0	92	·114	S	1	10	Str.	...	1	Brush ice fairly thick. Strong ice-blink
Mdt.	·054	23·1	22·3	78	·096	S	1	10	K.	...	1	A lot of loose ice off pack.
Means.	29·022	28·6	27·6	81·8	·129	...	1·2	9·2	...	...	1·4	

VOYAGE OF THE SCOTIA, 1902-1904.

27

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.		
FEBRUARY 20, 1903.											
At noon, lat. 69° 39' S. long. 22° 58' W.											
1	29.045	22.0	21.1	74	.086	s	0-1	10	K.	1	
2	.037	22.0	21.0	71	.083	s	1	10	K. str.	1	Moderate swell N.E. A little loose ice.
3	.035	22.0	20.8	66	.077	s	1	10	K.	1	In loose ice.
4	.012	22.1	21.0	69	.081	SE	0-1	10	K. str.	0-1	Moderate swell N.E.
5	28.995	22.1	21.0	69	.081	SE	0-1	10	K.	0-1	2 small bergs.
6	.992	22.0	20.9	69	.080	s	1	10	Str.	0-1	Temp. of freezing sea water 28.7.
7	.983	22.5	21.0	61	.078	s	0-1	10	Nim.	0	*° Loose brash ice since midnight.
8	.962	23.0	22.0	72	.088	SW	0-1	10	Str.	0	N.E. swell continues.
9	.948	23.5	22.0	62	.078	SW	1	10	Str.	0-1	Swell not so marked.
10	.933	23.2	21.9	66	.081	SW	1	10	Str.	0-1	Brash ice.
11	.924	23.1	21.6	62	.075	SW	2-3	10	Str.	0-1	
12	.916	24.1	22.9	69	.089	SW	1-2	10	K.	0	
13	.911	22.8	21.1	57	.069	SW	2	10	Nim.	0-1	*°
14	.897	22.0	20.6	62	.072	SW	2	10	K.	0-1	
15	.887	21.6	20.2	62	.072	SW	2-3	10	K.	0	Swell continues.
16	.876	21.6	20.7	74	.085	SW	1-2	8	K.	0	" "
17	.866	21.6	20.0	58	.067	SW	2	9	K.	0	" "
18	.853	22.2	20.2	51	.060	SW	2-3	10	K.	0	" "
19	.833	22.0	20.3	56	.065	WSW	2-3	10	K.	0	Slight N.E. swell.
20	.828	22.0	20.3	56	.065	WSW	2-3	7	K.	0-1	Shower clouds all round.
21	.824	21.2	20.0	66	.069	WSW	2-3	7	K.	0-1	
22	.814	21.3	20.1	67	.075	SW	2-3	10	K.	0	
23	.799	21.3	20.0	64	.067	SW	3	8	K.	0	
Mdt.	.785	21.1	20.1	71	.079	SW	2-3	10	K.	0	Almost in open water.
Means.	28.915	22.2	20.9	64.8	.076	...	1.4	9.5	...	0.3	

FEBRUARY 21.												
At noon, lat. 69° 46' S. long. 19° 10' W.												
1	28.774	21.1	19.8	63	.070	w	2-3	10	K.	0	Almost in open water.	
2	.755	21.3	20.8	85	.097	w	3	10	Nim.	0	*	
3	.742	20.3	20.0	91	.099	WSW	3	10	Nim.	0	* 2 1/2	
4	.740	21.0	19.5	58	.065	SW	1	10	Str nim.	0	*	
5	.747	20.3	19.4	73	.079	SE	1	5	Nim., K. str.	0	*	
6	.749	20.4	19.0	60	.065	SW	1-2	3	Str.	Cir. K.	0	Sailing through pieces of pancake ice.
7	.757	21.1	19.2	51	.057	SSW	1-2	2	Str.	Cir.	0	" " light pack and "
8	.760	22.0	20.0	50	.059	s	1	5	K.	...	0	" " " "
9	.761	22.7	20.7	52	.062	WSW	1	4	K.	...	0	" " " "
10	.766	22.0	20.8	66	.077	SW	1	10	Str.	...	0	*
11	.763	22.1	20.6	60	.070	SW	1	6	K. str.	...	0	* during hour.
12	.767	22.0	20.3	56	.065	SW	2-3	8	K.	...	0	
13	.773	22.1	21.0	69	.081	SW	2	3	K.	...	0	
14	.763	22.3	21.3	73	.086	SW	2	3	K.	...	0	
15	.762	22.2	21.0	67	.079	SW	1	1	K.	...	0	
16	.773	23.0	20.9	51	.062	SW	1	1	K.	...	0	
17	.766	22.9	20.8	50	.061	SW	0-1	1	K.	...	0	
18	.776	21.9	20.2	57	.066	Calm	0	5	K.	...	0	
19	.776	22.8	20.8	52	.063	Calm	0	0	...	...	0	
20	.784	22.0	20.1	50	.061	Calm	0	0	...	...	0	Very slight N.E. swell most of day.
21	.776	21.1	19.6	59	.065	Calm	0	0	...	...	0	
22	.784	20.7	19.2	60	.065	Calm	0	0	...	...	0	
23	.774	19.1	18.3	75	.076	Calm	0	0	...	...	0	
Mdt.	.769	18.6	18.1	85	.085	Calm	0	0	...	...	0	
Means.	28.765	21.5	20.1	63.0	.071	...	1.1	4.0	...	0.0		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.			Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
FEBRUARY 22, 1903.													At noon, lat. 70° 21' S. long. 17° 00' W.
1	28.761	17.1	16.9	94	.088	Calm	0	1	K.	...	0		
2	.762	19.2	18.4	75	.077	Calm	0	2	K.	...	0	[mirage observed.]	
3	.760	18.3	17.5	75	.074	Calm	0	0	...	...	0	Fogbank to S. and E. on which well marked	
4	.764	15.5	15.4	97	.085	SE	0	1	Str.	...	0	Thin ground fog, mirage.	
5	.770	13.4	13.4	100	.080	SE	0	0	...	...	0	Low lying ∞.	
6	.770	13.6	13.6	100	.080	SE	0	1	Str.	...	0	banks all round.	
7	.786	17.8	17.5	90	.088	Calm	0	6	Str.	...	0	banks to S. E.	
8	.794	18.7	18.1	81	.082	NE	0-1	1	K. str.	...	0		
9	.808	19.5	18.7	66	.079	N	0-1	1	...	Cir. K.	0	Steaming through ice.	
10	.813	20.2	19.1	67	.072	ENE	0-1	2	...	Cir str.	0	Pack all round.	
11	.821	19.7	19.5	94	.100	ENE	0-1	2	K.	...	0	" "	
12	.819	19.6	18.8	75	.079	NE	1	9	K.	...	0		
13	.826	20.4	19.8	82	.089	NE	1	5	K.	...	0		
14	.823	21.0	20.0	70	.078	NE	0-1	8	K.	...	0		
15	.824	22.0	20.5	60	.070	NE	0-1	8	K.	...	0		
16	.824	21.1	20.0	68	.076	E	0-1	9	K.	...	0		
17	.816	23.4	22.0	64	.080	Calm	0	7	K.	...	0		
18	.822	22.1	21.2	74	.087	Calm	0	9	K.	...	0		
19	.805	21.1	20.5	82	.092	NE	1	3	K.	...	0		
20	.801	19.1	19.0	97	.100	NNE	1	5	K.	...	0		
21	.789	19.7	19.3	88	.092	NE	0-1	4	K. str.	...	0		
22	.786	20.2	20.0	94	.102	NE	0-1	9	K.	...	0		
23	.779	20.2	20.0	94	.102	NE	0-1	10	Str.	...	0		
Mdt.	.763	20.0	19.3	77	.083	SSE	0-1	9	K.	...	0	In ice for night.	
Means.	28.795	19.3	18.7	81.8	.085	...	0.4	4.7	...	...	...		

FEBRUARY 23.													At noon, lat. 69° 57' S. long. 16° 53' W.
1	28.762	19.5	19.0	84	.088	SSE	0-1	3	Str.	Cir.	0		
2	.745	19.0	18.8	93	.095	SSE	0	2	...	Cir str.	0		
3	.752	19.0	18.5	83	.085	SSE	0	4	K. str.	Cir str.	0		
4	.733	19.9	19.1	75	.080	E	0	10	Str.	...	0	∞° round horizon.	
5	.733	19.7	18.9	76	.080	Calm	0	10	Str.	...	0	Lying in ice all night. Started steaming.	
6	.730	20.0	19.1	71	.076	Calm	0	9	Str.	...	0	[with young ice.	
7	.732	20.4	19.5	73	.080	Calm	0	10	Str.	...	0	New ice 3 to 5 inches thick. Mixed	
8	.734	20.1	19.7	87	.094	E	0-1	10	K.	...	0	Close packed ice.	
9	.739	20.0	19.4	80	.086	ESE	1	10	Str.	...	0	" "	
10	.735	20.9	20.0	73	.081	ESE	0-1	10	Str.	...	0	" "	
11	.733	20.8	20.0	76	.084	Calm	0	10	Str.	...	0	" "	
12	.731	21.0	20.3	78	.087	SE	2	10	K.	...	0	" "	
13	.724	22.2	21.4	77	.090	SSE	1-2	10	Nim.	...	0	*	
14	.709	23.0	22.2	77	.094	ESE	1-2	10	Nim.	...	0	*	
15	.706	22.5	21.8	81	.096	ESE	1-2	10	Str. nim.	...	0	*	
16	.702	22.9	22.2	80	.098	ESE	1-2	10	Nim.	...	0	*	
17	.690	22.4	21.6	78	.092	ESE	1-2	7	...	Cir str.	0		
18	.676	22.4	21.6	78	.092	SE	2-3	10	K. str.	...	0	⊕	
19	.658	22.0	21.1	74	.086	SE	2-3	10	Nim.	...	0	*	
20	.646	22.4	22.0	89	.106	SE	2-3	10	Mist	...	0	*~	
21	.635	22.7	22.2	86	.104	SE	2-3	10	Mist	...	0	*~	
22	.627	23.0	22.6	88	.108	SE	2-3	10	K. str. nim.	...	0	*	
23	.625	24.0	23.3	81	.104	SE	1-2	10	Str.	...	0		
Mdt.	.635	22.3	21.8	86	.102	SE	1-2	10	K. str.	...	0	Clearing at horizon to S. and E.	
Means.	28.704	21.3	20.7	80.2	.091	...	1.2	9.0	...	...	0.0		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
FEBRUARY 24, 1903.												
											At noon, lat. 69° 52' S. long. 17° 22' W.	
1	28.638	20.2	20.0	94	.102	SE	1-2	9	Str.	...	0	Clearing to S. and E.
2	.649	22.0	21.4	82	.095	ESE	2-3	10	Str.	...	0	Clear at S. horizon.
3	.656	22.0	21.3	79	.092	E	3	10	Str.	...	0	Clear horizon to E. and S.
4	.665	20.6	20.3	91	.101	ESE	3-4	4	...	Cir str.	0	Stratus round horizon.
5	.667	21.0	20.8	93	.105	ESE	3	8	...	Cir str.	0	
6	.668	22.4	22.0	89	.106	SE	4	10	Str.	...	0	
7	.668	22.6	22.1	86	.104	SE	4	10	...	Cr. & Cr. haze	0	
8	.676	22.8	22.1	80	.098	SE	3	10	Str.	...	0	☉ Gleaming brightly.
9	.678	22.9	22.0	75	.091	ESE	3-4	10	Str.	...	0	☉ " "
10	.700	22.8	22.0	78	.094	SE	3-4	10	Str.	...	0	☉ " "
11	.701	23.4	22.8	84	.104	SE	3-4	10	Str.	...	0	
12	.720	23.8	23.0	78	.100	SE	4	10	Str.	...	0	
13	.725	24.0	23.3	81	.104	ESE	3-4	10	Str.	...	0	
14	.747	23.7	23.0	81	.103	SE	3	10	Str.	...	0	
15	.754	23.5	23.0	87	.109	SE	3	10	Nim.	...	0	*
16	.766	23.1	22.6	86	.105	ESE	3	10	Str.	...	0	
17	.778	22.3	22.0	92	.109	ESE	3	10	Str.	...	0	
18	.797	22.1	21.7	88	.103	SE	2-3	10	Str.	...	0	
19	.803	21.8	21.2	83	.096	SE	1-2	10	Str.	...	0	
20	.813	21.1	20.7	87	.099	SE	2-3	10	Str.	...	0	
21	.824	20.9	20.6	91	.102	SE	1-2	10	Str.	...	0	
22	.838	21.1	21.1	100	.114	SE	1-2	10	Nim.	...	0	*
23	.856	21.9	21.3	83	.097	SSW	2-3	10	Str.	...	0	
Mdt.	.865	22.0	21.8	94	.110	SSE	1-2	10	Str.	...	0	
Means.	28.736	22.2	21.8	85.9	.102	...	2.8	9.6	...	...	0.0	
FEBRUARY 25.												
											At noon, lat. 69° 44' S. long. 18° 2' W.	
1	28.882	21.4	21.1	91	.105	SSE	2	10	Str.	...	In ice	Dull red glow on S. horizon.
2	.887	20.9	20.1	76	.085	S	2	10	Str.	...	"	
3	.920	18.5	18.3	94	.094	S	2	3	Str.	...	"	
4	.917	18.0	17.6	86	.081	S	2	10	Str.	...	"	No sign of water anywhere.
5	.938	19.2	18.7	84	.087	SSE	3	10	Str.	...	"	Started steaming.
6	.944	19.8	19.1	78	.083	SSE	3	10	Str.	...	"	[E. to S., to W.S.W. dark.
7	.971	20.2	19.5	78	.085	SSE	3-4	10	Str.	...	"	Watery look to W.N.W. Clear horizon
8	.985	19.7	18.8	72	.076	ESE	1	5	K. str.	...	"	Watery sky to N.W.
9	29.007	20.0	18.8	63	.068	S	1-2	0	...	...	"	
10	.025	19.3	18.2	67	.069	S	2-3	0	...	...	"	
11	.059	19.2	17.8	58	.061	S	2	0	...	...	"	
12	.066	20.3	19.0	62	.067	S	1-2	0	...	...	"	
13	.093	20.6	19.3	63	.069	S	1-2	0	...	...	"	
14	.116	21.0	19.3	54	.060	S	1	0	...	...	"	
15	.123	21.7	20.3	63	.072	SSW	0-1	0	...	...	"	Observations 10 minutes late.
16	.136	22.7	21.0	58	.069	S	1	0	...	...	"	
17	.164	24.1	22.3	58	.074	SW	0-1	0	...	...	"	Cum at W. and S.W. horizon.
18	.186	24.3	22.8	64	.082	W	1	0	...	...	"	Temp. on Cat. Head 17.50, 24.6.
19	.198	23.0	21.8	67	.082	WSW	1	2	K. str.	...	"	In fairly open water at times.
20	.216	22.5	21.5	73	.087	WSW	0-1	10	Str.	...	0	" " "
21	.241	21.4	20.6	77	.087	SW	1	10	Str.	...	0	" " "
22	.248	21.2	20.5	79	.089	SW	1-2	10	Str.	...	0	" " "
23	.262	21.4	20.8	82	.094	W	0-1	10	Str.	...	0	" " "
Mdt.	.277	21.4	20.7	80	.091	W	1	10	Str.	...	0	" " "
Means.	29.077	20.9	19.9	72.0	.080	...	1.5	5.0	...	...	0	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
FEBRUARY 26, 1903.													At noon, lat. 69° 36' S. long. 20° 20' W.
1	29·317	20·9	20·2	79	·088	WNW	1	10	Str.	...	0	Bay ice forming. Sailing through very thin bay ice.	
2	·308	21·0	20·3	78	·087	WSW	1-2	10	Str.	...	0		
3	·321	21·2	20·7	85	·096	W	1	10	Str.	...	0		
4	·312	20·9	20·2	79	·088	WNW	0-1	10	Str.	...	0	Steaming through loose ice.	
5	·304	21·1	20·6	85	·095	Calm	0	10	Str.	...	0		
6	·341	21·2	20·7	85	·096	Calm	0	10	Str.	...	0		
7	·348	21·4	20·8	82	·094	Calm	0	10	Str.	...	0	" " bay ice.	
8	·352	21·9	21·0	74	·086	NW	0-1	10	Str.	...	0		
9	·365	22·1	21·1	72	·084	Calm	0	10	Str.	...	0		
10	·393	22·2	22·0	68	·084	NW	0-1	10	Str.	...	0	Northerly swell.	
11	·408	22·6	21·5	71	·085	NW	0-1	10	K.	...	0		
12	·400	23·2	21·9	66	·081	NNW	0-1	10	Str.	...	0		
13	·417	24·2	23·0	69	·090	WNW	1-2	10	Str.	...	0	" " "	
14	·406	24·4	23·3	73	·095	NW	1-2	10	K. str.	...	0		
15	·394	26·0	24·6	68	·096	N	1-2	10	K. str.	...	0		
16	·384	25·6	23·8	60	·083	N	1-2	8	K.	...	0	" " "	
17	·382	25·3	23·8	65	·089	N	1-2	10	K. str.	...	0		
18	·392	25·6	24·0	64	·089	N	2	10	K. str.	...	0		
19	·398	26·2	24·8	69	·098	N	2-3	10	K. str.	...	0	" " "	
20	·376	27·0	25·2	64	·094	N	3-4	10	Str.	...	0		
21	·371	27·6	26·1	72	·107	N	3-4	10	Str.	...	0		
22	·377	27·6	26·5	79	·118	NNW	3-4	10	Str.	...	0	" " "	
23	·383	27·5	26·7	84	·126	N	3-4	10	Str.	...	0		
Mdt.	·372	28·0	27·1	82	·125	N	3-4	10	Str.	...	0		
Means.	29·368	24·0	22·9	73·9	·095	...	1·5	9·9	..	...	...		
FEBRUARY 27.													At noon, lat. 69° 32' S. long. 24° 00' W.
1	29·377	27·9	27·0	82	·125	N	3	10	Str.	...	0	N. swell.	
2	·387	28·0	27·1	82	·125	N	3	10	Str.	...	0		
3	·367	28·0	27·0	80	·122	N	3-4	10	Str.	...	0		
4	·349	27·9	27·1	84	·128	N	4	10	Str.	...	0	" " q.	
5	·351	27·9	27·2	86	·131	N	4	10	Str.	...	0		
6	·354	28·2	27·6	88	·136	N	4	10	Str.	...	0		
7	·351	28·1	27·6	90	·138	N	4	10	Str.	...	0	" " q.	
8	·354	28·2	26·2	65	·100	N	3	10	Str.	...	0		
9	·348	29·0	26·8	64	·102	N	3	10	Str.	...	0		
10	·352	28·5	26·8	70	·110	N	3-4	10	Str.	...	0	N.W. "	
11	·360	28·5	26·9	72	·112	N	3	10	K. str.	...	0		
12	·348	28·9	27·1	70	·110	NNE	3-4	10	Str.	...	0-1		
13	·343	28·9	27·1	70	·110	N	2-3	10	K. str.	...	0-1	N. "	
14	·332	29·0	27·5	75	·118	N	3	10	K. str.	...	0-1		
15	·331	29·0	27·3	72	·113	N	3	10	Str.	...	0-1		
16	·328	29·0	27·4	73	·115	N	3	10	Str.	...	0	1 berg on port bow.	
17	·323	29·0	27·7	78	·123	N	2-3	10	Str.	...	0		
18	·317	29·0	27·9	81	·128	N	2-3	10	Str.	...	0		
19	·317	28·5	27·9	90	·139	N	2-3	10	K. str.	...	0-1	1 berg on St. bow (steeple). Berg flat *0 [topped astern	
20	·315	28·7	27·7	83	·129	N	2-3	10	K. str.	...	0		
21	·306	28·7	27·2	74	·114	N	3	10	K. str.	...	0		
22	·295	28·5	27·3	79	·122	N	3	10	K. str.	...	0		
23	·296	28·0	27·0	80	·122	N	3	10	Str.	...	0		
Mdt.	·286	27·3	25·3	62	·093	N	2-3	10	K. str.	...	0		
Means.	29·337	28·4	27·2	77·1	·119	...	3·1	10·0	...	...	0·1		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
FEBRUARY 28, 1903.												
											At noon, lat. 69° 22' S. long. 26° 36' W.	
1	29.282	27.1	25.3	65	.096	N	2-3	10	Str.	...	0	Northerly swell. " " " " " " " "
2	264	27.1	25.1	62	.091	N	2-3	10	Str.	...	0	
3	250	26.5	25.0	69	.098	N	2-3	10	Str.	...	0	
4	243	26.5	25.0	69	.098	NNE	3	10	Str.	...	0-1	
5	232	26.0	24.6	68	.096	NNE	4	10	Str.	...	0-1	
6	232	26.0	24.6	68	.096	NE	2	10	Str.	...	0	
7	221	25.2	24.0	71	.096	ENE	3	10	Str.	...	1	
8	219	24.9	23.8	72	.097	NNE	1-2	10	Str.	...	0	
9	221	24.4	22.4	55	.071	NE	1-2	10	Str.	...	0	
10	224	24.0	22.4	61	.077	ENE	1-2	10	Str.	...	0	
11	219	24.0	22.2	57	.072	ENE	1	10	Str.	...	0	
12	218	24.1	22.2	56	.071	NE	1-2	10	Str.	...	0	
13	191	24.6	22.6	56	.072	ENE	2-3	10	K. str.	...	0	
14	198	24.8	23.0	59	.078	E	1-2	10	K. str.	...	0	
15	197	24.6	23.0	62	.082	E	2-3	10	Str.	...	0	
16	192	24.7	22.8	57	.075	E	1-2	10	K	...	0	
17	192	25.0	23.5	64	.087	E	2	10	K. str.	...	0	
18	197	24.8	22.9	57	.076	ENE	1-2	10	K. str.	...	0	
19	190	24.5	22.8	61	.078	ENE	1	10	K. str.	...	0	
20	191	24.0	22.6	65	.082	E	1-2	10	K. str.	...	0	
21	191	24.1	22.2	56	.071	SE	1-2	10	K. str.	...	0	
22	206	24.0	22.5	63	.080	SE	1-2	10	Str.	...	0	
23	204	24.0	23.0	73	.094	SE	1	10	Str.	...	0	
Mdt.	224	24.0	23.0	73	.094	SE	1-2	10	Str.	...	0	Northerly swell all day.
Means.	29.217	25.0	23.4	63.3	.084	...	1.9	10.0	...	...	0.1	
MARCH 1.												
											At noon, lat. 69° 03' S. long. 28° 2' W.	
1	29.215	24.0	23.0	73	.094	SE	1-2	10	K. str.	...	0	Sailing in open water near edge of pack.
2	238	23.9	21.8	52	.066	SE	2	10	Str.	...	0	
3	232	23.9	22.7	69	.088	SE	2-3	10	Str.	...	0	
4	240	23.9	22.4	63	.079	SE	1-2	10	Str.	...	0	
5	259	23.8	22.4	65	.082	SE	1	10	Str.	...	0	
6	269	24.0	22.6	65	.082	E	0-1	10	Str.	...	0	4 bergs. Sea covered with new ice.
7	284	24.2	23.0	69	.090	E	0-1	10	Str.	...	0	
8	296	25.0	23.5	64	.087	NE	0-1	10	Str.	...	0	
9	320	25.0	23.5	64	.087	NNE	0-1	10	Str.	...	0	
10	337	25.1	23.2	58	.078	NNE	1	10	Str.	...	0	Pancake ice all round.
11	349	25.3	23.5	60	.082	NE	1-2	10	Str.	...	0	" " "
12	358	25.0	23.0	55	.074	NE	1-2	10	Str.	...	0	" " "
13	368	25.7	23.3	52	.072	N	1-2	10	Str.	...	0	
14	369	25.4	23.6	60	.082	NE	0-1	10	K. str.	...	0	
15	380	25.6	23.8	60	.083	ENE	1	10	Str.	...	0	
16	385	25.6	23.5	56	.077	E	0-1	10	Str.	...	0	Among bay ice.
17	394	26.0	23.5	47	.068	SE	1-2	10	Str.	...	0	
18	412	25.7	23.3	52	.072	ESE	0-1	10	K. str.	...	0	
19	427	25.6	23.3	53	.073	ESE	0-1	10	K. str.	...	0	
20	433	25.8	23.5	53	.073	E	1	10	K. str.	...	0	15 bergs visible from masthead.
21	433	25.7	23.0	48	.065	SE	1	10	K. str.	...	0	Pancake ice.
22	443	25.5	23.0	50	.068	ENE	0-1	10	Str.	...	0	
23	444	25.5	23.3	55	.077	ENE	1-2	10	Str.	...	0	
Mdt.	448	25.4	23.1	52	.072	ENE	1-2	10	Str.	...	0	Slight to moderate swell from N. most of [day.
Means.	29.347	25.0	23.1	58.1	.078	...	1.1	10.0	...	...	0.0	

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
MARCH 2, 1903.												At noon, lat. 68° 40' S. long. 30° 18' W.
1	29.451	25.5	23.2	53	.072	E	0-1	10	Str.	...	0	10 bergs in sight.
2	.450	25.3	23.0	52	.070	ENE	1	10	Str.	...	0	
3	.447	25.5	23.2	53	.072	E	1	10	Str.	...	0	
4	.429	25.6	22.7	45	.060	NE	0-1	10	Str.	...	0	
5	.448	25.4	23.0	51	.069	Calm	0	10	Str.	...	0	
6	.454	25.8	23.5	53	.073	N	0	10	Str.	...	0	
7	.463	25.8	23.2	49	.068	Calm	0	10	Str.	...	0	
8	.456	25.7	23.2	51	.069	N	0	10	Str.	...	0	
9	.477	26.0	(24.0)	58	.081	NE	0-1	10	Str.	...	0	
10	.473	26.0	24.2	61	.086	ENE	0-1	10	Str.	...	0	
11	.465	25.7	24.0	63	.087	NE	1-2	10	Str.	...	0	
12	.474	25.0	24.3	82	.110	ENE	0-1	10	Str.	...	0	
13	.474	26.2	24.7	67	.096	ESE	2-3	10	Nim.	...	0	* ⁰⁰
14	.465	26.2	24.4	62	.088	NE	1-2	10	K.	...	0	
15	.465	26.3	24.7	66	.094	NE	1-2	10	K.	...	0	
16	.478	26.2	24.4	62	.088	NE	1-2	10	K.	...	0	
17	.491	26.2	24.3	61	.086	NNE	2-3	10	K.	...	0	
18	.500	26.3	24.7	66	.094	NE	1-2	10	K.	...	0	
19	.497	26.3	24.2	58	.082	NK	0-1	10	K.	...	0	
20	.498	26.3	24.5	62	.089	Calm	0	10	K. str.	...	0	
21	.498	26.5	24.0	53	.075	Calm	0	10	Str.	...	0	
22	.492	26.6	24.6	60	.086	N	0-1	10	K. str.	...	0	
23	.498	26.8	24.8	61	.087	NW	0-1	10	K. str.	...	0	
Mdt.	.499	26.6	24.6	60	.086	N	1	10	K. str.	...	0	Swell from N. all day; many bergs in sight.
Means.	29.473	26.0	24.0	58.7	.082	...	0.8	10.0	...	...	0.0	
MARCH 3.												At noon, lat. 68° 35' S. long. 31° 56' W.
1	29.506	26.4	24.5	61	.088	NNE	0-1	10	Str.	...	0	A considerable number of large flat-topped bergs, and sea mostly covered with pan-cake ice.
2	.506	26.2	24.0	56	.078	NNE	1	10	Str.	...	0	
3	.513	26.3	24.0	55	.077	N	0-1	10	Str.	...	0	
4	.512	26.4	24.0	54	.076	N	0	10	Str.	...	0	
5	.517	26.5	24.0	52	.075	W	0	10	Str.	...	0	
6	.515	26.3	24.1	57	.080	NW	0	10	Str.	...	0	
7	.528	26.0	24.2	61	.086	NW	0-1	10	Str.	...	0	
8	.522	25.9	24.5	78	.098	N	0-1	10	Str.	...	0	Nimbus clouds to E. and S.E. * ⁰
9	.534	25.4	25.0	90	.121	N	0-1	10	Str.	...	0	
10	.532	25.0	24.9	97	.131	NNE	1	10	Str.	...	0	12 bergs in sight. 10 " "
11	.532	25.2	24.9	92	.126	NNE	0-1	10	Str.	...	0	
12	.534	26.6	25.1	69	.099	NNE	0-1	10	Str.	...	0	
13	.547	27.1	26.0	78	.112	N	1-2	10	K.	...	0	
14	.547	27.3	26.0	75	.109	N	1-2	10	K.	...	0	
15	.548	27.4	25.9	71	.105	N	1-2	10	Str.	...	0	
16	.551	27.4	26.2	77	.113	NNE	0-1	10	K.	...	0	
17	.560	27.4	26.4	80	.118	NNW	1-2	10	Nim.	...	0	* ² during and at hour.
18	.564	27.0	26.0	79	.114	NNW	1	10	Nim.	...	0	
19	.572	27.3	26.1	77	.112	NNW	1	10	K. str.	...	0	
20	.564	28.0	26.4	70	.107	NNW	1-2	10	K.	...	0	
21	.567	28.0	26.8	76	.117	NNW	1	10	K.	...	0	
22	.555	28.0	27.0	80	.122	NNW	1	10	K. str.	...	0	
23	.553	28.0	27.0	80	.122	NW	0-1	10	Str.	...	0	
Mdt.	.554	28.0	27.1	82	.125	NW	1	10	Str.	...	0	
Means.	29.538	26.8	25.4	72.8	.105	...	0.8	10	...	...	0.0	

VOYAGE OF THE SCOTIA, 1902-1904.

33

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.			Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
MARCH 4, 1903.													At noon, lat. 68° 22' S. long. 32° 35' W.
1	29.543	28.0	27.0	80	.122	NW	1-2	10	Str.	...	0		
2	.533	28.1	27.0	79	.121	NW	1	10	Str.	...	0	2 bergs on St. bow.	
3	.524	28.0	27.2	84	.128	NNW	1-2	10	Str.	...	0		
4	.537	28.2	27.2	81	.124	NNW	1-2	10	Str.	...	0		
5	.498	28.3	27.0	76	.117	N	2-3	10	Str.	...	0	Several bergs around. Perceptible N. [swell.	
6	.480	28.4	27.3	80	.124	NNW	3	10	Str.	...	0		
7	.487	28.5	27.3	79	.122	NNW	3	10	Str.	...	0		
8	.475	28.5	27.8	88	.136	NNW	2-3	10	Str.	...	0	Slight swell from N.	
9	.473	28.9	28.1	86	.136	NNE	3-4	10	Str.	...	0	* between 8 and 9.	
10	.465	28.5	27.7	86	.133	NNE	2-3	10	Str.	...	0	*	
11	.467	28.2	27.6	88	.136	NNE	2-3	10	Str.	...	0	*. 12 ice-bergs.	
12	.459	28.9	27.0	68	.108	NNE	1-2	10	Str.	...	0		
13	.445	29.0	27.1	69	.108	NW	1-2	10	K.	...	0		
14	.439	29.1	28.0	81	.129	N	1-2	10	K.	...	0		
15	.447	28.8	27.8	82	.129	N	1-2	10	Str.	...	0		
16	.438	28.7	27.3	76	.118	N	1-2	10	Str.	...	0		
17	.422	28.5	27.4	80	.124	NW	0-1	10	K. str.	...	0		
18	.400	28.7	27.7	83	.129	N	2-3	10	K. str.	...	2	In open water.	
19	.385	28.9	28.0	84	.132	NW	2	10	Str.	...	1-2	" "	
20	.356	28.8	28.1	87	.138	N	2-3	10	Str.	...	1-2	" "	
21	.342	28.5	27.7	85	.133	NNW	2	10	K. str.	...	0-1	" " Ice at times.	
22	.335	28.5	27.8	88	.136	NNW	2	10	Str.	...	0-1	" " " "	
23	.324	28.5	28.0	91	.142	NNW	2-3	10	Str.	...	0-1		
Mdt.	.297	28.5	28.0	91	.142	N	2-3	10	Str.	...	0-1		
Means.	29.441	28.5	27.5	82.2	.128	...	2.1	10	...	...	0.2		
MARCH 5.													At noon, lat. 68° 11' S. long. 34° 17' W.
1	29.282	28.5	28.0	91	.142	N	3-4	10	Nim.	...	0-1	*. Stars gleaming overhead.	
2	.259	28.6	28.1	91	.143	NW	3-4	10	Nim.	...	1-2	*	
3	.243	29.0	28.5	91	.145	NNW	2-3	10	Str.	...	0-1	In open water.	
4	.231	29.0	28.5	91	.145	NNW	2	10	Str.	...	1		
5	.207	28.0	27.6	91	.140	NW	2	10	Str.	...	0-1	Steaming along pack. No bergs in sight.	
6	.222	27.0	26.4	87	.126	NW	1	10	Str.	...	0-1	A few bergs in sight.	
7	.231	26.0	25.5	88	.124	W	2	10	Str.	...	0-1		
8	.236	25.0	24.9	97	.131	W	2-3	10	Str.	...	0-1	Ice all round. A few bergs.	
9	.259	24.8	24.0	79	.106	W	2-3	10	Str.	...	1	A few bergs.	
10	.269	23.3	22.9	89	.111	W	1-2	10	Str.	...	0-1	Pack all round.	
11	.294	21.9	21.8	97	.114	WNW	2-3	10	Str.	...	0-1		
12	.293	23.4	23.0	89	.111	W	2	10	Str.	...	1		
13	.312	23.4	23.1	92	.115	W	3	10	Str.	...	1-2		
14	.318	22.7	22.2	86	.104	WSW	3	10	Str.	...	1		
15	.341	24.3	23.7	84	.110	W	2-3	10	Str.	...	0-1		
16	.348	25.3	24.0	69	.094	WNW	2-3	10	Str.	...	0-1	A few bergs in sight.	
17	.369	25.8	25.0	81	.113	W	2-3	10	Str.	...	0-1		
18	.399	25.5	24.9	86	.117	W	2-3	10	Str.	...	0-1		
19	.424	25.0	24.1	77	.103	WSW	2-3	10	Str.	...	0-1		
20	.449	23.6	23.2	89	.112	WSW	1-2	10	Str.	...	0-1		
21	.466	25.0	24.2	79	.106	WSW	1-2	10	Str.	...	0		
22	.492	24.2	24.0	95	.123	W	2	10	Str.	...	0		
23	.517	24.4	24.0	90	.117	W	2	10	Str.	...	1		
Mdt.	.539	24.0	24.0	100	.129	W	2-3	10	Str.	...	0-1		
Means.	29.333	25.3	24.8	87.9	.120	...	2.3	10	...	...	0.6		

VOL. II.

5

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
MARCH 6, 1903.													At noon, lat. 67° 39' S. long. 36° 10' W.
1	29.560	23.2	23.0	95	.117	w	0-1	10	Str.	...	0	Appearance of Δ^0 to S. and S.E. Steaming along edge of pack.	
2	.572	23.9	23.5	89	.114	w	1	10	Str.	...	0	Appearance of Δ gone.	
3	.600	22.2	22.2	100	.119	w	1	10	Str.	...	0	Steaming through stream ice.	
4	.602	21.9	21.9	100	.118	Calm	0	10	Mist	...	0	Δ^0	
5	.594	20.8	20.8	100	.112	WNW	0	10	Mist	...	0	Δ^0	
6	.603	21.1	21.1	100	.114	WNW	0-1	10	Mist	...	0	Δ^0 V.	
7	.610	22.2	22.2	100	.119	Calm	0	10	Mist	...	0	Steaming through pancake ice Δ^0	
8	.590	23.0	22.8	94	.115	NE	0-1	10	Str.	...	0	Stopped for sounding.	
9	.583	24.0	23.7	91	.118	N	0-1	10	Str.	...	0	Bay ice forming.	
10	.585	25.4	24.9	88	.119	N	1-2	10	Str.	...	0		
11	.577	25.5	25.1	90	.125	N	1	10	Str.	...	0	Old pancake ice all round.	
12	.562	26.8	26.1	85	.123	NNE	1	10	Str.	...	0		
13	.550	27.4	26.9	90	.134	NNE	2	10	Str.	...	0		
14	.535	28.0	27.5	89	.137	NNE	1	10	Str.	...	0		
15	.520	28.5	28.0	91	.142	N	1-2	10	Str.	...	0	* ⁰	
16	.509	28.8	28.4	93	.147	NE	1-2	10	Str.	...	0-1	* ⁰	
17	.475	29.0	28.3	88	.139	ENE	2	10	Str.	...	0-1		
18	.469	29.0	28.5	91	.145	ENE	3	10	Str.	...	0-1		
19	.469	28.4	28.1	95	.147	ENE	2	10	Str.	...	0		
20	.450	28.3	28.2	93	.152	ENE	2-3	10	Mist	...	0	Δ^0	
21	.453	28.2	28.2	100	.154	NE	2-3	10	Mist	...	0	Δ^0	
22	.437	28.3	28.2	98	.152	ENE	2-3	10	Mist	...	0	Δ^0	
23	.428	28.2	28.2	100	.154	ENE	3	10	Mist	...	0	Δ^0	
Mdt.	.406	28.4	28.3	98	.153	NE	3	10	Mist	...	0	Δ^0	
Means.	29.530	25.9	25.6	94.3	.132	...	1.4	10	...	...	0.1		
MARCH 7.													At noon, lat. 67° 33' S. long. 36° 35' W.
1	29.393	28.2	28.0	96	.148	ENE	2-3	10	Str.	...	0		
2	.384	28.1	28.0	98	.151	NE	2-3	10	Str.	...	0		
3	.385	28.2	27.5	86	.133	NE	2-3	10	Str.	...	0		
4	.392	28.0	27.7	93	.143	NE	2	10	Str.	...	0	In bay ice.	
5	.366	28.2	27.8	92	.142	NE	4	10	Str.	...	1		
6	.359	28.1	27.4	86	.132	ENE	3-4	10	Str.	...	1		
7	.364	27.6	27.0	88	.132	NE	4	10	Str.	...	1-2		
8	.375	27.5	27.0	90	.135	NE	2-3	10	Str.	...	1		
9	.360	27.9	27.2	86	.121	NE	2	10	Str.	...	1	Loose pancake ice all round, nimbus at horizon.	
10	.345	27.8	27.1	86	.121	NNE	1-2	10	Str.	...	0		
11	.346	27.9	27.0	82	.125	ENE	3-4	10	Str.	...	0	Loose pancake ice.	
12	.328	27.8	26.9	82	.125	E	4	10	Str.	...	1		
13	.331	27.4	26.6	84	.125	ESE	3-4	10	Str.	...	1		
14	.321	27.4	26.5	82	.122	ENE	2-3	10	Str.	...	0		
15	.315	27.9	27.0	82	.125	NE	2-3	10	Str.	...	1-2		
16	.302	28.0	27.0	80	.122	NE	2-3	10	Str.	...	1-2		
17	.294	27.8	26.7	79	.120	NE	2-3	10	Str.	...	1-2		
18	.278	27.5	26.7	84	.126	NE	2-3	10	Str.	...	1-2		
19	.266	27.5	26.8	85	.128	NE	3	10	Str.	...	0-1	Considerable swell from E.	
20	.262	27.0	26.3	85	.123	NE	3-4	10	Str.	...	0-1		
21	.231	26.8	26.2	87	.126	NE	4-5	10	Str.	...	1	Swell from N.E.	
22	.211	27.1	26.5	87	.128	NE	4-5	10	Str.	...	1		
23	.180	27.6	26.7	82	.124	NE	5-6	10	Str.	...	1-2	Moderate swell.	
Mdt.	.141	27.1	26.7	91	.135	NE	6-7	10	Str.	...	2-3	Heavy swell. 	
Means.	29.314	27.7	27.0	86.4	.130	...	3.2	10	...	...	0.9		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
MARCH 8, 1903.													At noon, lat. 67° 22' S. long. 37° 36' W.
1	29.092	27.2	26.7	89	.133	NE	7	10	Str.	...	1	Swell 2-3.	
2	.064	27.0	26.4	87	.126	NE	7	10	Str.	...	1	" 2-3	
3	.026	27.8	27.2	88	.133	NE	7	10	Str.	...	1	" 2-3	
4	28.996	28.0	27.3	86	.131	NE	7	10	Str.	...	1	" 3	
5	.970	27.5	26.1	73	.109	NE	7	10	Str.	...	1	" 2-3	
6	.926	27.6	26.0	70	.104	NNE	8	10	Str.	...	1	" 3 from N.N.E.	
7	.903	27.7	26.3	74	.110	NE	8	10	Str.	...	0	" 3. In ice, heavy swell.	
8	.878	27.0	26.8	95	.140	E	6	10	Str.	...	1	Steaming through pancake ice.	
9	.831	27.8	26.8	80	.122	E	7	10	Nim.	...	1	* E. swell 2.	
10	.812	27.9	27.0	82	.125	E	6-8	10	Nim.	...	1	* Swell 2.	
11	.768	27.9	27.2	86	.131	E	7	10	Str.	...	1	" 1-2.	
12	.726	27.5	27.0	90	.135	E	6-8	10	Nim.	...	1	" 1-2.	
13	.679	27.7	27.2	90	.136	E	7	10	Nim.	...	1	* Swell 3.	
14	.642	27.7	27.5	96	.145	E	7	10	Nim.	...	1	* Swell 2.	
15	.604	27.8	27.5	94	.143	E	7-8	10	Nim.	...	1	" 2	
16	.545	28.0	27.5	89	.137	E	8	10	Nim.	...	1	" 2	
17	.517	28.2	27.6	88	.136	E	8-9	10	Nim.	...	1	* Swell 3.	
18	.497	28.0	27.3	86	.131	E	5-6	10	Nim.	...	1	* Swell 2.	
19	.470	28.1	27.3	85	.129	E	6-7	10	Nim.	...	1	* Swell 2.	
20	.434	28.1	28.0	98	.151	E	6-7	10	Nim.	...	1	* Swell 2.	
21	.428	28.9	28.1	86	.136	E	6-7	10	Nim.	...	1	* Swell 2.	
22	.402	28.4	28.0	93	.144	ESE	5-7	10	Nim.	...	1	* Swell 2.	
23	.396	28.6	28.0	89	.139	ESE	6-7	10	Nim.	...	1	* Swell 2.	
Mdt.	.379	28.9	28.0	84	.132	ESE	5-6	10	Str.	...	1	* during hour, swell 2.	
Means.	28.708	27.9	27.2	86.6	.132	...	6.9	10	...	...	1.0		

MARCH 9.													At noon, lat. 67° 10' S. long. 39° 00' W.
1	28.367	29.0	28.1	84	.133	ESE	5-6	10	Nim.	...	1	Steaming through streams of ice. Swell 3. q ² at times.	
2	.377	29.0	28.1	84	.133	SE	3-6	10	Nim.	...	1	* Swell 3. q ² .	
3	.377	29.0	28.3	88	.139	SE	3-5	10	Nim.	...	1	" 3	
4	.376	29.0	28.8	96	.154	SE	4	10	Nim.	...	1	" 3	
5	.377	29.1	29.0	98	.158	ESE	4-5	10	Nim.	...	1	" 3	
6	.382	29.1	28.9	96	.155	SE	4	10	Nim.	...	1	* Heavy E.S.E. swell.	
7	.387	29.1	28.8	94	.152	ESE	3-4	9	Str.	...	1	" " Sky clearing	
8	.392	29.0	28.8	96	.154	SE	3-4	10	Str.	...	1	[overhead.	
9	.400	29.2	29.0	97	.156	SE	3-4	10	Str.	...	1		
10	.392	29.3	29.0	95	.154	SE	3	10	Str.	...	1		
11	.396	29.5	29.0	92	.150	ESE	3	10	Str.	...	1	Started steaming through pack.	
12	.404	29.5	29.0	92	.150	E	2-3	10	Str.	...	1	Steaming in open pool.	
13	.404	29.3	29.0	95	.154	ESE	4-5	10	Nim.	...	1	* Heavy swell.	
14	.407	29.3	29.0	95	.154	E	4	10	Str.	...	1		
15	.410	29.5	29.2	95	.155	SE	3-4	10	Str.	...	1		
16	.422	29.3	29.1	97	.157	ESE	3-4	10	Nim.	...	1	* 1 berg in sight.	
17	.415	29.4	29.0	93	.152	E	4	10	Str.	...	1		
18	.423	29.2	29.0	97	.156	ESE	3-4	10	Nim.	...	1	Sleet.	
19	.428	29.2	29.0	97	.155	E	3-4	10	Nim.	...	1		
20	.436	29.2	29.0	97	.156	E	3-4	10	Nim.	...	0	V d.	
21	.447	29.3	29.2	98	.159	E	3-4	10	Nim.	...	0	Swell from E.	
22	.458	29.3	29.1	97	.157	E	2-4	10	Str.	...	0	Slight swell.	
23	.469	29.2	29.0	97	.156	E	2-3	10	Nim.	...	0	* In pack. Open water to W.	
Mdt.	.476	29.0	28.9	98	.157	ES	3-4	10	Nim.	...	0	* In open water with few pieces of ice.	
Means.	28.409	29.2	28.9	94.5	.152	...	3.7	10	...	...	0.8		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
MARCH 10, 1903.													At noon, lat. 66° 40' S. long. 40° 35' W.
1	28.476	28.9	28.8	98	.157	ESE	4-5	10	Nim.	...	0	Driving in open pool. *	
2	.485	28.3	28.0	95	.146	ESE	4	10	Nim.	...	0	* " "	
3	.487	27.6	27.2	92	.138	ESE	4	10	Nim.	...	0	* " "	
4	.493	27.8	27.4	92	.139	SE	5	10	Str.	...	0	* " "	
5	.493	27.7	27.1	88	.131	SE	5	10	Nim.	...	1	* " "	
6	.498	27.0	26.9	98	.144	SE	4-5	10	Nim.	...	1	* ² q.	
7	.515	27.2	26.9	94	.139	SE	3-4	9	Nim.	Cir str.	1	* ⁰	
8	.522	27.4	27.1	94	.140	SE	2	10	Str.	...	0	*. In open water.	
9	.537	28.0	27.8	95	.146	SE	2-3	10	Nim.	...	0	*. ☉ gleaming 8.45.	
10	.553	28.9	28.2	87	.139	ESE	2-3	10	Str.	...	0	Steaming in open water.	
11	.545	29.0	28.7	95	.151	S	1-2	10	Str.	...	0-1	Sleet.	
12	.575	29.1	28.8	94	.152	SSE	2	10	Nim.	...	0	*	
13	.585	29.1	28.7	93	.149	SSE	3-4	10	Nim.	...	0	*	
14	.600	29.2	28.8	93	.150	S	3-4	10	Nim.	...	0	*	
15	.597	29.1	28.9	96	.155	SSE	4	10	Nim.	...	0-1	*. ☉ gleaming. In open pool.	
16	.616	29.2	28.7	92	.148	SSE	4	10	Nim.	...	0	*	
17	.639	29.0	28.2	86	.136	SSE	4	10	Nim.	...	0-1	*. In open pool.	
18	.659	28.7	28.2	91	.143	SE	3-4	10	Nim.	...	0	*. Clearing overhead.	
19	.692	27.8	27.3	90	.137	SSE	3-4	10	Nim.	...	0	*. In pancake ice.	
20	.706	27.0	26.6	91	.133	SSE	3-4	10	Nim.	...	0	*. In loose ice, clearing to W.	
21	.713	27.2	27.0	96	.142	SE	3-4	10	Str.	...	0	In loose pack.	
22	.722	27.0	(26.8)	95	.140	SE	4	10	Nim.	...	0	" " 1 berg to N.W.	
23	.732	26.7	26.5	96	.139	SE	4	10	Str.	...	0	" " "	
Mdt.	.752	26.3	26.0	94	.133	SE	4	10	Str.	...	0	" " Large berg astern.	
Means.	28.591	28.1	27.7	93.1	.143	...	3.6	10	...	...	0.2		
MARCH 11.													At noon, lat. 66° 22' S. long. 42° 20' W.
1	28.749	26.0	25.8	95	.134	SE	4	10	Str.	...	0	Driving in loose ice.	
2	.765	25.8	25.6	96	.134	SE	4	10	Str.	...	0	In pack.	
3	.774	25.6	25.3	93	.129	SE	4-5	10	Str.	...	0	" "	
4	.771	25.4	25.0	90	.124	SE	4	10	Str.	...	0	Close pack.	
5	.789	25.5	25.0	88	.131	SSE	5	10	Str.	...	0	2 flat-topped bergs.	
6	.805	25.0	24.8	94	.127	SSE	5	10	Str.	...	1	In large pool of water.	
7	.809	24.8	24.1	82	.110	SSE	5	10	Str.	...	0	Fairly clear, visibility 10 miles.	
8	.812	25.0	24.6	89	.120	SSE	4-5	10	Str.	...	1		
9	.822	25.0	24.5	87	.117	SSE	4-5	10	Str.	...	1	☉ gleaming.	
10	.835	25.1	24.8	92	.124	SSE	4	10	Str.	...	0	☉ " "	
11	.845	25.7	25.0	83	.115	SSE	5	10	Str.	...	1	In open water.	
12	.856	25.8	25.0	81	.113	SSW	6	10	Str.	...	0	Pancake ice and open water. /	
13	.866	25.8	25.0	81	.113	SSW	4-6	10	Nim.	...	0	*	
14	.878	25.8	25.0	81	.113	S	4-6	10	Str.	...	0	* during hour. ☉ gleaming at times.	
15	.892	25.8	24.9	79	.109	S	4-5	10	K. str.	...	0	Swell from S.E.	
16	.904	26.0	25.0	76	.107	S	5	10	K. str.	...	0	In loose pack.	
17	.913	26.0	24.9	74	.104	S	5	10	K. str.	...	1	In open pool.	
18	.931	26.0	24.8	72	.101	S	5	10	K. str.	...	0		
19	.945	25.3	24.1	72	.097	SSE	4-5	10	Str.	...	1		
20	.956	25.0	24.0	74	.100	S	4-6	10	Str.	...	0		
21	.962	25.2	24.1	74	.099	S	5-6	10	Str.	...	0		
22	.968	25.8	24.8	77	.106	SSE	5	10	Str.	...	0	* ⁰	
23	.975	25.2	24.3	78	.106	S	5	10	Str.	...	0	Driving in fairly loose pack.	
Mdt.	.990	25.0	24.0	74	.100	S	4	10	Str.	...	0	" " "	
Means.	28.867	25.5	24.8	82.6	.114	...	4.7	10	...	...	0.2		

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
MARCH 12, 1903.												At noon, lat. 65° 29' S. long. 44° 06' W.
1	29.005	24.0	23.1	76	.097	s	5	10	Str.	...	0	Pack opening up under influence of strong
2	.008	23.0	22.2	77	.094	s	5	10	Str.	...	0	Driving in fairly loose pack. [wind.
3	.021	22.2	21.7	86	.101	s	5	10	Str.	...	0	Ice as before.
4	.032	22.0	21.2	76	.089	s	4-6	10	Str.	...	1	q. "
5	.053	22.0	21.3	79	.092	s	4-6	10	Str.	...	1	q. "
6	.080	22.0	21.4	82	.095	s	6	10	Str.	...	2	Clear open sea to W. and N.W. ✓
7	.092	21.2	20.8	88	.099	SSE	6	10	Str.	...	1	
8	.097	20.9	20.5	88	.098	SSE	4	10	Str.	...	1	
9	.107	20.5	20.2	91	.100	SSE	4	10	Str.	...	1	
10	.123	19.7	19.5	94	.100	s	5	10	Str.	...	1	
11	.127	19.0	18.6	86	.088	s	4-5	10	Str.	...	1	1 berg to starboard.
12	.132	18.1	17.9	94	.092	s	5-6	10	Str.	...	0	In pancake ice. ✓
13	.155	16.8	16.2	81	.075	SSW	4	10	Str.	...	0	
14	.159	18.0	17.5	83	.081	SSW	4	10	Str.	...	1	
15	.171	18.3	17.8	84	.083	SSW	3-4	10	Nim.	...	0	*
16	.178	16.6	16.4	94	.087	SSW	3-4	10	Str.	...	1	
17	.181	16.1	15.8	89	.080	s	4-5	10	Nim.	...	1	*
18	.192	15.0	15.0	100	.086	s	4	10	Str.	...	0-1	
19	.210	14.6	14.6	100	.085	SSW	3-4	10	Nim.	...	0	
20	.220	14.2	14.0	93	.077	SSW	3-4	10	Str.	...	0	
21	.226	13.0	12.8	92	.072	SSW	4	10	Str.	...	0	
22	.239	12.3	12.0	90	.067	SSW	3	10	Nim.	...	0	*°
23	.240	12.0	11.9	96	.071	SSW	3	10	Nim.	...	0	*°
Mdt.	.252	10.7	10.6	97	.068	s	2-3	10	Str.	...	0	Lying in ice for night. New ice forming.
Means.	29.138	18.0	17.6	88.2	.087	...	4.3	10	...	...	0-5	
MARCH 13.												At noon, lat. 64° 48' S. long. 44° 26' W.
1	29.250	9.5	9.3	92	.064	SSW	3	10	Nim.	...	0	gleaming. *
2	.263	8.8	8.4	86	.055	SSW	3	10	Str.	...	0	" " In pancake ice. [st. bow.
3	.258	7.7	7.2	83	.051	s	2	8	K.	...	0	" " Clearing at times, 1 berg on
4	.273	7.1	6.9	92	.055	s	2	8	K. str.	...	0	" " Loose ice mostly.
5	.277	6.9	6.7	91	.054	s	2	9	K. str.	...	0	
6	.288	7.7	7.1	80	.049	s	1	10	Nim.	...	0	
7	.303	7.1	7.1	100	.060	s	1	9	K. str.	...	0	In ice, steaming.
8	.311	7.9	7.7	92	.057	w	1	10	Str.	...	0	" "
9	.311	7.4	7.4	100	.060	s	0-1	9	Str.	...	0	" "
10	.314	7.7	7.7	100	.061	s	0-1	7	K.	...	0	" "
11	.319	9.0	9.0	100	.065	SSE	0-1	10	Str.	...	0	" "
12	.314	9.4	9.1	88	.059	SSE	0-1	10	Str.	...	0	" "
13	.324	9.8	9.3	90	.055	s	0-1	10	Str nim.	...	0	" " *° Blue overhead.
14	.327	10.7	10.3	82	.063	s	1-2	10	Str.	...	0	" "
15	.344	10.5	9.9	80	.055	s	1	10	K. str.	...	0	" " *°
16	.340	10.5	9.9	80	.055	SSW	0-1	9	Str.	...	0	" "
17	.359	10.9	10.2	77	.054	SSW	0-1	10	K. str.	...	0	" "
18	.360	10.9	10.9	100	.070	Var.	0	10	K. str.	...	0	" " Wind very variable.
19	.354	11.1	10.9	93	.066	Calm	0	10	Str.	...	0	" "
20	.362	11.1	10.9	93	.066	NE	0	10	Str.	...	0	" "
21	.353	12.8	12.5	90	.070	NE	0	10	Str.	...	0	" "
22	.353	12.9	12.4	83	.065	Calm	0	10	Str.	...	0	" "
23	.355	12.8	12.1	76	.059	NNE	0-1	10	Str.	...	0	" "
Mdt.	.351	13.2	12.9	89	.071	NNE	0-1	10	Str.	...	0	
Means.	23.310	9.7	9.4	89.1	.060	...	0.9	9.5	...	...	...	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
MARCH 14, 1903.													At noon, lat. 64° 30' S. long. 43° 45' S.
1	29.353	12.7	12.3	87	.066	NE	1	10	Str.	...	0		
2	.361	13.2	12.9	89	.071	NE	0-1	10	Str. nim.	...	0	*°	
3	.355	12.3	12.0	90	.067	NE	1-2	10	Str. nim.	...	0	*°	
4	.361	12.2	12.0	93	.070	NE	1	10	Str.	...	0	All young ice. 6 bergs.	
5	.353	12.6	12.4	93	.072	NE	0	10	Str.	...	0		
6	.350	14.6	14.1	84	.070	N	0-1	10	Str.	...	0	Clear horizon to W. 5 bergs.	
7	.347	14.2	14.0	93	.077	NNE	0-1	10	Str.	...	0		
8	.338	15.4	15.1	90	.078	NE	0-1	10	Str.	...	0	Steaming through bay ice.	
9	.331	16.7	16.1	81	.074	NNE	0-1	10	Str.	...	0	☉ gleaming. Steaming through bay ice.	
10	.327	18.0	17.2	74	.071	NE	0-1	9	K. str.	...	0	50 bergs in sight.	
11	.315	19.2	18.5	78	.080	NE	2	8	K. str.	...	0	50 " "	
12	.313	20.3	19.3	70	.076	NE	1-2	6	K.	Cir.	0	40 " "	
13	.307	21.4	20.5	74	.084	NNE	1-2	8	K.	...	0	[with cross bars.	
14	.301	23.1	21.9	68	.083	N	1-2	8	K.	...	0	Cirrus radiating S.S.E. and N.N.W.	
15	.289	23.1	22.0	70	.086	NNE	1-2	9	K.	...	0	Black bulb in sun, 82°-0.	
16	.280	23.7	23.1	84	.107	NNE	2-3	10	K.	...	0-1		
17	.252	24.0	23.0	73	.094	NE	3	10	K. str.	...	0		
18	.252	25.1	24.0	72	.098	NE	3	10	K. str.	...	0		
19	.228	24.9	24.1	79	.107	NNE	4	10	K. str.	...	0		
20	.205	25.6	25.0	86	.118	NNE	4	10	Nim.	...	0	*°	
21	.201	26.0	25.2	81	.113	NE	3-4	10	Nim.	...	0	*°	
22	.197	26.3	26.0	91	.133	NNE	3-4	10	Nim.	...	0	*°	
23	.173	26.9	26.1	83	.120	NE	3	10	Nim.	...	0	*°	
Mdt.	.166	27.1	26.5	87	.128	NNE	3	10	Nim.	...	0	*. Passed several large bergs.	
Means.	29.290	19.9	19.3	82.0	.089	...	1.8	9.5	...	...	0.1		
MARCH 15.													At noon, lat. 64° 11' S. long. 42° 15' W.
1	29.160	28.1	27.6	90	.138	N	3	10	Nim.	...	0	*°	
2	.158	28.8	28.3	86	.144	NE	2-3	10	Nim.	...	0	*°. In loose ice. A few heavy pieces.	
3	.157	29.1	28.0	81	.129	NNE	2-3	10	Nim.	...	0	A little sleet. In loose ice.	
4	.147	29.2	28.9	95	.153	NNE	1	10	Str.	...	0	Steaming through loose ice.	
5	.132	29.6	29.0	90	.148	NNE	1	10	Str.	...	0		
6	.124	29.9	29.2	88	.147	NE	2	10	Str.	...	0	Ice loose. Few bergs.	
7	.124	29.7	29.1	90	.149	NNE	2	10	Str.	...	0	Pancake ice.	
8	.108	30.2	29.7	92	.155	NE	2-3	10	Str.	...	0	" " Some bergs.	
9	.096	30.0	29.0	83	.140	NE	3	10	Str.	...	0	" "	
10	.090	29.9	29.0	85	.142	NE	3	10	Str.	...	0	" "	
11	.088	29.8	29.0	86	.154	NE	3-4	10	Str.	...	0	" "	
12	.078	29.8	29.0	86	.154	NE	4	10	Str.	...	0	" "	
13	.078	30.0	29.0	83	.140	NE	2-3	10	Str.	...	0	" "	
14	.070	30.0	29.1	85	.148	NE	3-4	10	Str.	...	0	" "	
15	.066	29.8	28.7	84	.137	NE	3-4	10	Str.	...	0	" "	
16	.060	29.6	28.3	80	.129	NE	3-4	10	Str.	...	1	In open pool, ice all round.	
17	.044	29.0	28.3	88	.139	NE	4-5	10	Str.	...	0-1	" "	
18	.051	29.4	28.1	79	.127	NE	4	10	Str.	...	1	" "	
19	.045	28.5	27.8	88	.136	NE	4	10	Str.	...	0	In pancake ice. Swell from N.E.	
20	.039	28.7	27.8	84	.121	NE	4	10	Str.	...	1		
21	.025	28.1	27.3	85	.129	NE	4	10	Str.	...	0	In pancake ice.	
22	.009	28.3	27.7	88	.137	NE	4	10	Nim.	...	0	" " *°	
23	.012	28.3	28.0	95	.146	NE	4	10	Str.	...	0		
Mdt.	.001	28.3	28.0	95	.146	NE	5-6	10	Str.	...	0		
Means.	29.082	29.3	28.5	86.9	.141	...	3.2	10.0	...	...	0.1		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
MARCH 16, 1903.												
At noon, lat. 63° 51' S. long. 41° 50' W.												
1	28.991	28.9	28.3	89	.142	NE	5	10	Str.	...	0	In open pool of water. In pancake ice.
2	.984	29.0	28.3	88	.139	NE	4	10	Str.	...	1	
3	.996	29.1	28.1	83	.132	NE	4	10	Str.	...	0	" " Some bergs. " " 1 berg.
4	.978	29.0	28.4	89	.142	NNE	4	10	Str.	...	0	
5	.972	29.1	28.6	91	.146	NNE	4	10	Str.	...	0	" " 7 ⁰ .
6	.976	29.2	28.8	93	.150	NE	4-5	10	Str.	...	1	
7	.984	29.2	28.9	95	.153	NNE	4-6	10	Str.	...	1	" " 6 icebergs.
8	.987	29.5	29.0	90	.150	NNE	4	10	Str.	...	0-1	
9	.999	30.0	29.1	85	.143	NE	2-3	10	Str.	...	0	Iceberg.
10	29.013	29.8	28.9	84	.142	NE	3	10	Str.	...	0	
11	.008	29.3	28.3	83	.134	NE	4	10	Str.	...	0	d●.
12	28.897	29.1	28.1	83	.131	NE	4	10	Str.	...	0-1	
13	29.004	29.0	28.0	82	.130	NE	3	10	Str.	...	0	d●.
14	.003	29.0	28.0	82	.130	NE	3-4	10	Str.	...	0	
15	28.996	29.0	28.0	82	.130	NE	3-4	10	Str.	...	0	d●.
16	.984	28.8	27.5	78	.122	ENE	3	10	Str.	...	0	
17	.974	29.0	27.8	79	.125	E	3	10	Str.	...	0	d●.
18	.943	28.8	28.0	86	.135	ENE	3	10	Nim.	...	0	
19	.925	29.0	28.0	82	.130	ENE	3	10	Str.	...	0	d●.
20	.888	29.0	28.4	89	.142	NE	3-4	10	Nim.	...	0	
21	.849	29.0	28.6	93	.148	ENE	3	10	Nim.	...	0	d●.
22	.819	29.0	28.7	95	.151	ENE	3	10	Nim.	...	0	
23	.774	29.1	28.9	96	.155	NE	3	10	Str.	...	0	d●.
Mdt.	.729	29.0	28.9	98	.157	NE	2	10	Nim.	...	0	
Means.	28.945	29.1	28.4	87.3	.140	...	3.5	10	...	...	0.2	Considerable swell from N.E. In [loose pack.
MARCH 17.												
At noon, lat. 63° 08' S. long. 42° 30' W.												
1	28.687	29.1	29.0	98	.158	NE	2-3	10	Nim.	...	0	* ² . In loose pack. Heavy N.E. swell. * ² . Wind light. Numerous bergs. Heavy gleaming. * ² . Heavy swell. [N.E. swell.
2	.667	29.1	29.1	100	.161	NE	0-1	10	Nim.	...	0	
3	.686	29.7	29.4	95	.157	N	1	9	Cum.	...	0	" " " " N.
4	.682	29.1	29.0	98	.158	NE	0-1	10	Mist	...	0	
5	.703	29.1	29.0	98	.158	NNE	0-1	10	Mist	...	0	~~~~~
6	.726	29.1	28.7	93	.149	NNW	1-2	9	K. nim.	...	1	
7	.752	29.1	28.7	93	.149	NNW	2	3	Str.	...	1-2	* ⁰ . Thin low-lying ~~~~~ 4 bergs. ⊙ gleaming. In open water.
8	.766	29.9	28.5	77	.130	NW	2	10	Str.	...	1-2	
9	.783	29.2	29.0	97	.156	NNW	1-2	10	Str.	...	2	⊙ " A few bergs.
10	.811	29.0	28.3	88	.139	NW	2-3	10	Str.	...	1-2	
11	.802	27.9	27.0	82	.124	NW	2-3	10	Str.	...	2	* ⁰
12	.818	25.8	25.0	81	.113	NW	2-3	10	Str.	...	0	
13	.870	24.9	24.0	77	.103	NNW	2	10	K.	...	0	In loose ice.
14	.879	23.9	23.0	76	.097	NNW	2	10	K. str.	...	1-2	
15	.903	23.5	21.7	56	.071	NNW	2-3	10	Str.	...	0	" " Heavy swell.
16	.916	22.0	21.3	79	.092	NW	1-2	10	K.	...	0	
17	.942	21.0	20.2	75	.084	WNW	2-3	10	Str.	...	0	" "
18	.935	20.9	20.1	76	.085	NW	2-3	10	Str.	...	0	
19	.945	19.9	19.5	83	.094	NW	2	10	K. str.	...	0	* ⁰
20	.964	20.4	19.7	89	.086	NW	2-3	10	Nim.	...	0	
21	.975	21.1	20.3	76	.085	NW	1-2	10	Nim.	...	0	* ⁰
22	.986	21.8	21.0	77	.089	NW	2 3	10	K.	...	1	
23	.995	23.0	22.2	77	.094	NW	2	10	K.	...	0	⊙ gleaming. Clearing overhead. Clearing overhead.
Mdt.	.996	24.8	24.0	79	.106	NW	1-2	10	K. str.	...	0	
Means.	28.841	25.6	24.9	84.4	.118	...	1.9	9.6	...	...	0.5	⊙ gleaming. In loose ice.

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.		
MARCH 18, 1903.											
At noon, lat. 62° 10' S. long. 41° 20' W.											
1	28.992	26.2	25.6	86	.123	N	2	10	Str.	...	0 gleaming.
2	.986	27.0	26.3	85	.123	NNE	1-2	10	Nim.	...	0 d. gleaming. ahead.
3	.974	27.6	27.1	90	.136	NNE	1	10	Nim.	...	0 d. gleaming.
4	.971	28.8	28.5	95	.150	NNW	0	10	Mist	...	0 d. gleaming.
5	.976	29.1	28.6	91	.146	NW	0	9	K. str.	...	0 1 berg. Pancake ice.
6	.993	28.8	28.1	88	.138	NW	0	9	K. str.	...	0 3 bergs. Swell N.N.E.
7	29.000	28.8	28.1	88	.138	NW	0-1	8	...	Cir. K.	0 Sea covered with pancake ice.
8	28.989	28.8	28.1	88	.138	N	0-1	9	...	Cir. K.	0
9	29.008	29.1	28.4	88	.140	NNW	0-1	9	...	Cir. K.	0
10	.002	29.8	28.9	85	.142	NW	1	9	...	Cir. K.	0-1
11	.009	29.5	28.6	85	.139	N	1	0	...	...	0-1 Cirro-st. round horizon.
12	28.987	29.3	28.0	78	.126	NNW	1	2	...	CirK., cir.	0 Cirrus clouds on horizon.
13	.989	29.2	27.8	77	.122	NW	2-3	9	K.	...	0
14	.978	29.4	28.0	77	.124	N	1-2	9	K.	...	0
15	.968	29.1	27.8	78	.124	NNE	2-3	10	Str.	...	0
16	.965	29.2	27.8	77	.122	N	2	10	Str.	...	0
17	.954	29.0	27.8	79	.125	N	1-2	10	Str.	...	0
18	.956	29.0	27.8	79	.125	ENE	2-3	10	Str.	...	0
19	.941	29.0	27.5	75	.118	NE	2-3	10	Str.	...	0-1
20	.934	28.7	27.2	74	.115	NE	3	10	Str.	...	0
21	.923	28.3	27.1	78	.120	NE	2-3	10	Str.	...	0
22	.905	28.0	27.0	80	.122	NE	2-3	10	Str.	...	0 In ice.
23	.883	28.0	27.0	80	.122	NE	2	10	Str.	...	0
Mdt.	.872	28.0	27.0	80	.122	NE	3	10	Str.	...	0 In open water with a few pieces of ice.
Means.	28.965	28.7	27.7	82.5	.129	...	1.5	8.9	...	...	0.1
MARCH 19.											
At noon, lat. 61° 22' S. long. 42° 05' W.											
1	28.855	28.0	26.3	69	.105	NE	2-3	10	Str.	...	0 In open water.
2	.856	27.5	26.1	73	.109	NNE	3	10	Str.	...	0-1 " "
3	.842	27.3	26.1	76	.112	NE	2-3	10	Str.	...	0 " "
4	.832	27.0	26.0	79	.114	NE	2-3	10	Str.	...	0 Auroral? light to S., in rather heavy ice.
5	.804	26.2	25.3	80	.111	N	1	10	Str.	...	0-1 Loose pack. 3 bergs.
6	.794	26.0	25.2	80	.113	NNE	2	10	Str.	...	0-1 Some very heavy pack, passed 3 bergs.
7	.792	26.6	25.6	79	.113	NNE	1-2	10	Str.	...	0-1 " " some small
8	.774	26.0	25.3	83	.117	N	2-3	10	Str.	...	0 Northerly swell. [bergs.
9	.782	26.7	25.8	81	.116	N	2-3	10	Str.	...	0 " Steaming in pancake ice.
10	.789	26.0	25.2	80	.113	NNE	2	10	Str.	...	0 " " "
11	.797	26.2	25.5	84	.120	NNE	2-3	10	Str.	...	0 " " "
12	.797	26.2	25.1	75	.106	NE	2-3	10	Str.	...	0-1 A few small bits of ice.
13	.820	27.0	25.8	75	.109	NE	1-2	10	Str.	...	0-1 Heavy swell.
14	.831	27.1	26.0	78	.112	NE	1-2	10	Str.	...	1-2 " In open water.
15	.842	27.1	26.2	81	.118	NE	2	10	Str.	...	0-1 " "
16	.843	28.1	27.2	83	.126	NE	1-2	10	Str.	...	0
17	.864	27.7	26.9	84	.127	N	0-1	10	Str.	...	0
18	.896	27.5	27.0	90	.135	NNE	0-1	10	Nim.	...	0 *° In very heavy loose pack.
19	.901	27.6	27.1	90	.136	NNE	1	10	Mist	...	0 " " "
20	.914	27.8	27.3	90	.137	E	0-2	10	Mist	...	0 " " "
21	.921	28.0	27.5	89	.137	E	0-1	10	Mist	...	0 " " "
22	.937	28.0	27.7	93	.143	E	0-1	10	Nim.	...	0 " " "
23	.947	28.3	28.0	95	.139	NE	0	10	Str.	...	0 In large pool of water. Ice all round.
Mdt.	.958	28.7	28.3	93	.146	NE	1-2	10	Str.	...	0-1 In large pool of water. Ice all round. Considerable swell all day.
Means.	28.850	27.2	26.4	82.5	.121	...	1.6	10	...	...	0.2

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-5.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
MARCH 20, 1903.												
At noon, lat. 61° 05' S. long. 43° 20' W.												
1	28.954	29.0	28.4	89	.142	Calm	0	10	Str.	...	0	☽ and stars gleaming. Clearing overhead
2	.959	29.3	28.7	90	.146	NNW	1	10	Str.	...	0	☽ gleaming faintly.
3	.962	27.8	27.5	94	.143	N	1	10	Str.	...	0	☽ " " " on water.
4	.924	26.6	26.5	98	.141	NE	2	10	Str.	...	0-1	☽ " " " N.E. swell.
5	.912	27.0	27.0	100	.147	NE	1	10	Str.	...	0-1	Low-lying fog.
6	.880	28.0	27.9	98	.150	NE	1-2	10	Nim.	...	0-1	*. One flat topped berg.
7	.847	29.8	29.5	95	.158	NE	2-3	10	Nim.	...	0	*. Steaming through heavy ice, 1 berg.
8	.824	31.3	31.0	96	.169	N	2-3	10	Str. & mist	...	0	☽ Northerly swell.
9	.814	31.2	31.0	97	.171	NE	2	10	Str. & mist	...	0	☽ " " " d ●°.
10	.778	31.8	31.5	96	.173	NNE	1	10	Str. & mist	...	0	☽ " " "
11	.745	31.8	31.5	96	.173	NNE	2	10	Str. & mist	...	0	☽ " " "
12	.711	31.1	31.1	100	.175	N	2-3	10	Str. & mist	...	0	☽ " " "
13	.664	31.0	31.0	100	.174	N	3-4	10	Mist	...	2	☽ " " "
14	.612	32.1	31.5	92	.169	N	4-5	10	Nim.	...	2	☽ Several bergs.
15	.540	32.1	31.7	95	.174	NW	5-6	10	Str.	...	3	☽ on water.
16	.519	32.0	31.6	94	.172	N	4-5	10	Str.	...	3-4	☽ Patches of blue at times.
17	.500	32.0	31.6	94	.172	N	4-5	10	Str.	...	3-4	* Clearing overhead.
18	.484	32.0	31.5	93	.170	N	5	10	Nim.	...	4-5	
19	.449	31.8	31.3	94	.168	N	5	10	Str.	...	4-5	
20	.462	32.1	31.5	92	.169	NNW	4-5	10	Str.	...	4-5	
21	.434	31.4	31.2	97	.173	NNW	4-5	10	Str.	...	4-5	
22	.411	31.5	31.0	94	.166	NW	3-4	8	K. str.	...	4-5	Stars shining.
23	.398	31.2	30.9	96	.168	NW	3-4	10	Nim.	...	4-5	d ●°.
Mdt.	.396	30.8	30.0	88	.152	NW	4-6	10	Nim.	...	4-5	
Means.	28.674	30.6	30.3	94.9	.163	...	3.0	...	...	...	2.0	
MARCH 21.												
At noon, close to Cape Dundas, South Orkneys.												
1	28.430	30.1	29.8	96	.159	NW	5	10	Nim.	...	5	Passed close to large berg.
2	.419	30.1	29.8	96	.159	NW	5	10	Nim.	...	4-5	*.
3	.427	30.1	29.7	94	.156	NW	4-5	10	Nim.	...	4-5	*.
4	.467	28.9	28.3	89	.142	W	3	10	Str.	...	5	Horizon S.W. to N.W. clear of cloud.
5	.472	28.9	28.1	86	.136	WSW	3-4	10	Str.	...	5	Some blue to W.S.W. horizon.
6	.499	28.5	27.7	85	.133	WSW	3-4	9	K. str.	...	5	Half dozen bergs.
7	.504	28.4	27.0	75	.116	SW	4	9	K. str.	...	5	
8	.552	27.9	27.0	82	.125	W	3	9	Str. K.	...	2-3	Stratus on horizon and patches of blue.
9	.575	28.0	27.1	82	.125	WSW	4	10	Str. nim.	...	5	
10	.551	26.1	25.6	88	.125	W	5-6	7	K. str.	...	5	Some ice to S.S.W.
11	.533	25.8	24.2	65	.090	W	3-5	6	K. str.	...	6	
12	.555	25.8	24.1	64	.088	W	4-5	5	Scud	Cir.	4	Pack ice to W.S.W.
13	.616	25.3	23.7	64	.087	W	5	10	Str.	...	4	Cape Dundas bearing S.
14	.620	24.0	22.5	63	.080	WSW	4-5	10	Nim.	...	2-3	*.
15	.630	23.4	22.8	84	.101	W	3	10	Str.	...	2-3	N.W. swell. 2 bergs.
16	.636	24.0	23.3	81	.104	W	4	10	Str.	...	2-3	Lying-to. Pack to W.
17	.664	24.4	23.7	82	.108	SW	3-4	10	Nim.	...	2-3	Swell. *
18	.652	25.3	24.5	81	.110	WNW	5	10	Nim.	...	7	Very heavy sea. *
19	.677	25.2	24.0	71	.096	WSW	4-5	10	Nim.	...	7	*.
20	.691	26.1	24.6	67	.094	W-W	5	10	Nim.	...	7	*°
21	.718	25.9	24.6	70	.098	WNW	4-5	10	Str.	...	7	Stars gleaming.
22	.708	25.2	24.1	74	.099	W	5-6	3	K.	...	7	☽
23	.746	26.0	24.7	70	.099	W	4-5	7	K.	...	5	
Mdt.	.731	26.0	24.8	72	.101	W	5-6	2	K.	...	5	☽
Means.	28.586	26.6	25.7	78.4	.114	...	4.3	8.6	...	...	4.8	

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Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
At noon, to the south of Laurie Island, South Orkneys. lat. 61° 14' S. long. 44° 50' W.												
MARCH 24, 1903.												
1	28.951	31.2	31.0	97	.171	NE	3-4	10	Nim.	...	0	Thick and gloomy to west. *
2	.894	31.9	31.1	90	.161	NE	4	10	Nim.	...	0	Driving in pack. d. ●.
3	.836	32.0	31.5	93	.170	NE	4-5	10	Nim.	...	0	● " " q ² force 7 at 3.15. ▲ ²
4	.732	32.6	32.1	95	.175	NNE	4-5	10	Nim.	...	0-1	● " " to S. of Powell's Island.
5	.692	32.8	32.2	93	.175	N	4-6	10	Nim.	...	0-1	● and sleet.
6	.599	33.4	32.8	93	.179	NE	4	10	Nim.	...	0	● " " on sea. Several bergs.
7	.534	33.8	33.0	91	.178	ENE	3-5	10	Nim.	...	0	Sleet. " Several bergs.
8	.458	33.0	32.2	91	.171	NE	3	10	Mist.	...	0	☼ *
9	.377	33.8	33.0	91	.178	NE	3	10	Str.	...	0	☼ *
10	.303	32.6	32.0	93	.173	NE	2-3	10	Str.	...	0-1	
11	.262	33.1	32.3	91	.172	NNE	3	10	Str.	...	0	Lying in pack.
12	.216	33.7	33.1	93	.182	NE	3	10	K. str.	...	0	" " ☉ gleaming.
13	.198	32.5	32.0	94	.174	NNE	2-3	10	Str.	...	0	" " "
14	.184	32.0	31.5	93	.170	N	3	10	Nim.	...	0	" " ●
15	.196	32.8	32.0	91	.170	NW	3	10	Str.	...	0-1	" " *
16	.210	31.8	31.2	93	.166	NW	4-5	10	Str.	...	1-2	" in large open pool.
17	.235	31.7	31.1	92	.165	W	5	10	Nim.	...	0	" in pack. *
18	.278	30.2	29.3	86	.145	W	6-8	10	Mist	...	0	" " ☼ [N.W.
19	.360	28.1	26.9	77	.118	W	7-9	10	K.	...	0	" " q Clearing to
20	.408	26.0	24.7	70	.099	W	8-9	3	K. str.	...	0	" " q [horizon.
21	.477	25.1	24.1	75	.101	W	7-8	0	...	...	0	☼ " " q K. str. low down on
22	.534	25.1	24.1	75	.101	W	8-9	0	...	...	0	☼ " " q [large berg.
23	.585	24.1	23.0	71	.092	W	8-9	9	K. str.	...	0	☼ " " q. Just weathered
Mdt.	.629	23.9	22.5	65	.083	WNW	7-8	1	K. str.	...	0	☼ " " q. Northerly swell.
Means.	28.464	30.7	29.9	87.2	.153	...	4.9	8.5	...	...	1.5	

At noon, off Cape Dundas, South Orkneys.												
MARCH 25.												
1	28.663	22.9	21.8	70	.085	w	8-9	0	...	...	0	K. str. at horizon, q. Driving in rather
2	.703	23.7	22.2	63	.079	w	6-7	5	K.	...	0	heavy pack. Northerly swell. ☼
3	.738	24.2	23.0	69	.090	w	7-8	10	Str.	...	0	Driving in fairly heavy pack.
4	.763	26.1	25.1	77	.108	w	6	10	Str.	...	0	☼ " " "
5	.787	27.3	26.0	75	.109	w	6	10	Str.	...	0	Heavy swell. N. ☼
6	.812	28.9	27.2	71	.112	w	4-6	10	Str.	...	0	" " "
7	.834	30.0	28.2	72	.120	w	6	9	K. str.	...	2	" " Outside of ice. ☼
8	.838	29.1	27.8	78	.124	w	3	8	K. str.	...	3	In open water. Northerly swell.
9	.876	31.0	29.2	74	.131	WSW	2	0	...	...	2	" " " [8 miles.
10	.875	31.0	28.7	69	.121	WSW	2	7	K.	...	1	" " Cape Dundas bearing N.W.
11	.881	30.5	28.9	76	.132	WSW	2	10	Str.	...	0-1	" " " N. by W.
12	.865	30.5	29.0	77	.134	WSW	1-2	10	Str.	...	0-1	" " "
13	.866	29.5	28.9	90	.147	NW	1-2	10	Nim.	...	0-1	" " *
14	.849	29.7	29.0	88	.146	Calm	0	10	Nim.	...	0	" "
15	.842	29.6	29.0	90	.148	NW	0-1	10	Nim.	...	0	
16	.830	30.0	29.3	88	.148	Calm	0	10	Str.,nim.	...	0	☼ on water all round.
17	.829	30.0	29.4	90	.150	NNE	0	10	Str.	...	0	
18	.834	29.2	29.2	100	.161	Calm	0	10	Nim.	...	0	*
19	.849	28.8	28.1	87	.138	s	0-1	10	Nim.	...	0	
20	.878	27.8	27.0	84	.127	Calm	0	10	Nim.	...	0	Lying in Scotia Bay.
21	.911	26.7	26.0	85	.122	s	0-1	10	Str.	...	0	
22	.937	26.0	25.0	76	.107	s	0-1	10	Str.	...	0	
23	.949	25.0	23.5	64	.087	SW	1-2	4	Str.	...	0	
Mdt.	.964	24.9	23.4	64	.086	SW	1-2	7	Str.	...	0	
Means.	28.841	28.0	26.9	78.2	.121	...	2.6	8.3	...	...	0.4	

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
MARCH 26, 1903. At Scotia Bay, South Orkneys.												
1	28.993	25.0	23.7	68	.092	sw	0-1	10	Str.	...	0	S. swell. " " *° " " *° * on hills. on hills. on hills. *° gleaming. on hills. " " *° clearing to N. * <

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
MARCH 28, 1903. At Scotia Bay, South Orkneys.												
1	28.902	33.1	32.8	96	.182	NW	2	10	Nim.	...	0-1	d ●. Stars gleaming overhead.
2	.890	32.3	32.0	97	.178	NW	0-1	10	Str.	...	0	Ice blink to South.
3	.878	32.5	32.0	94	.174	NW	0	10	Str.	...	0	
4	.851	31.2	30.8	94	.165	Calm	0	10	Str.	...	0	
5	.840	31.7	31.1	92	.165	Calm	0	10	Str.	...	0	
6	.824	30.2	30.0	97	.163	SE	0	10	Str.	...	0	all round.
7	.802	30.0	29.8	97	.161	sse	0-1	10	Mist	...	0-1	A few pieces of ice in bay.
8	.790	30.0	29.8	97	.161	s	0-1	10	Mist	...	0-1	
9	.754	30.0	30.0	100	.167	sse	0-1	10	Mist	...	0-1	Sleet.
10	.720	30.0	30.0	100	.167	SE	0-1	10	Mist	...	0-1	Sleet.
11	.693	29.9	29.8	99	.164	SE	1	10	Mist	...	0-1	Sleet.
12	.657	29.5	29.3	97	.158	SE	1	10	Mist	...	1	Temperature of sea 29°·5. Sleet.
13	.613	29.0	28.9	98	.157	SE	3	10	Nim.	...	1	[quickly to N.
14	.577	28.3	28.2	98	.152	SE	3	10	Nim.	...	1-2	Ice on W. side of bay travelling
15	.541	27.8	27.6	96	.146	SE	3-4	10	Nim.	...	1-2	
16	.510	27.7	27.5	96	.145	sse	3	10	Nim.	...	1	
17	.495	27.0	26.8	95	.140	sse	3-4	10	Nim.	...	1	
18	.476	26.0	26.0	100	.141	sse	3-4	10	Nim.	...	0	Ice all round. †
19	.477	26.0	26.0	100	.141	sse	3-4	10	Nim.	...	0	
20	.481	25.5	25.3	95	.131	sse	3-4	10	Nim.	...	0	
21	.483	25.1	25.0	98	.132	sse	3-4	10	Nim.	...	0	
22	.483	25.0	25.0	100	.135	s	3-4	10	Nim.	...	0	
23	.490	25.1	25.0	98	.132	sse	4-5	10	Nim.	...	0	
Mdt.	.497	24.8	24.8	100	.134	s	3-5	10	Nim.	...	0	g.
Means.	28.655	28.7	28.5	97.2	.154	...	2.0	10	...	...	0.4	
MARCH 29. At Scotia Bay, South Orkneys.												
1	28.512	24.0	24.0	100	.129	s	4-5	10	Nim.	...	0	† ² * ² q.
2	.515	23.5	23.5	100	.128	s	1-5	10	Nim.	...	0	† ² * ² q ² .
3	.533	23.1	23.0	97	.120	s	1-4	10	Nim.	...	0	† ² * ² q.
4	.537	22.4	22.4	100	.120	s	1-4	10	Nim.	...	0	† ² * ² q.
5	.557	21.1	21.1	100	.114	s	1-3	10	Str.	...	0	† ⁰ q up to 5.
6	.579	20.4	20.4	100	.110	SE	0-3	10	Fog	...	0	† ⁰ q ⁰ .
7	.598	19.1	19.0	97	.100	s	0-3	10	Fog	...	0	† ⁰ q ⁰ * ⁰ during hour.
8	.632	18.4	18.4	100	.100	SE	0-3	10	Nim.	...	0	* ⁰ † ⁰ q ⁰ .
9	.641	17.5	17.5	100	.096	sse	1-3	10	Str.	...	0	* ⁰ during hour. † ⁰ q ⁰ .
10	.669	16.2	15.9	90	.082	s	0-3	10	Str.	...	0	† ⁰ q.
11	.663	15.0	14.8	92	.079	s	0-3	10	Str.	...	0	* ⁰ † ⁰ q.
12	.680	14.9	14.5	87	.074	s	0-3	10	Str.	...	0	* ⁰ † ⁰ q ⁰ .
13	.690	15.9	15.3	80	.071	s	1-3	10	Str.	...	0	† ⁰ q ⁰ .
14	.678	15.1	14.7	86	.074	s	0-4	10	Nim.	...	0	† ⁰ q ⁰ *.
15	.698	15.3	14.6	77	.067	sw	1-4	10	Nim.	...	0	† ⁰ q *
16	.713	15.9	15.3	80	.071	sw	0-3	10	Str.	...	0	† ⁰ * ⁰ q.
17	.752	15.9	15.3	80	.071	Var.	0-3	10	Nim.	...	0	† ⁰ * ⁰ q.
18	.750	16.0	15.2	73	.065	w	0-4	10	Str.	...	0	† ⁰ * ⁰ q.
19	.752	16.0	15.0	67	.060	WNW	0-4	10	Nim.	...	0	† ⁰ * ⁰ q.
20	.756	15.8	14.9	70	.063	w	0-4	10	Str.	...	0	† ⁰ q.
21	.766	15.9	15.1	74	.065	w	0-4	3	K.	...	0	q clearing.
22	.776	16.4	15.1	61	.056	w	0-3	0	...	...	0	q.
23	.775	17.5	15.8	49	.048	WNW	0-3	0	...	...	0	q ⁰ .
Mdt.	.766	19.0	16.2	42	.044	w	1-2	0	...	...	0	
Means.	28.666	17.9	17.4	83.4	.084	...	2.0	...	...	...	0.0	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-8.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
MARCH 30, 1903.													At Scotia Bay, South Orkneys.
1	28.759	20.5	17.8	39	.042	WNW	0-2	6	K.	...	...	☉ shining. * ⁰⁰ * ⁰ Rather gusty at times. " " " " " " " "	
2	.745	21.9	18.5	32	.038	WNW	0-2	1	K. str.	...	...		
3	.713	24.1	21.0	38	.049	WNW	1-3	8	K.	...	...		
4	.666	24.3	21.8	46	.061	W	0-1	10	K str.	...	...		
5	.653	24.0	21.8	50	.064	NW	0-1	9	K. str.	...	...		
6	.632	23.1	20.9	49	.060	NW	0	8	K. str.	Cir.	...		
7	.634	22.2	20.7	61	.071	NW	0-2	8	K. str.	...	...		
8	.636	21.3	20.0	64	.072	Var.	0-1	8	K. str.	...	...		
9	.659	21.2	20.2	71	.080	Var.	0-1	9	Str.	...	...		
10	.671	20.8	19.5	63	.070	sw	1-2	8	K. str.	...	...		
11	.685	21.2	19.9	64	.071	sw	1-2	9	K. str.	...	...		
12	.672	22.1	20.8	64	.075	sw	1-2	10	K. str.	...	...		
13	.716	21.6	20.6	72	.082	s	0-1	9	K. str.	...	...		
14	.759	18.5	18.0	84	.084	sw	1-2	8	K. str.	...	...		
15	.751	19.2	18.5	78	.080	sw	1-2	8	K. str.	...	...		
16	.779	17.8	16.9	72	.069	sw	1	10	Nim.	...	...		
17	.776	16.5	16.1	87	.079	s	0-1	9	K. nim.	...	...		
18	.788	16.9	16.6	90	.084	ssw	0-1	10	K. str.	...	...		
19	.804	16.9	16.6	90	.084	sw	0-1	9	K.	...	...		
20	.824	17.1	16.4	77	.072	sw	0-2	10	Str.	...	...		
21	.827	16.9	16.3	81	.075	sw	1-2	10	Str.	...	...		
22	.826	16.1	15.7	86	.078	sw	0-2	8	K. str.	...	...		
23	.832	15.9	15.7	94	.084	sw	0-1	10	Str.	...	...		
Mdt.	.832	14.9	14.7	93	.080	ssw	0-1	10	Str.	...	...		
Means.	28.735	19.8	18.5	68.5	.071	...	0.9	8.5	...	...	...		
MARCH 31.													At Scotia Bay, South Orkneys.
1	28.834	13.9	13.7	93	.076	ssw	0-1	10	Str.	...	...	Rather gusty at times. ☉ ☉ ☉ ☉ ⁰ . ☉ ⁰ . ☉ ⁰ .	
2	.838	12.9	12.9	100	.078	ssw	0-1	10	Str.	...	...		
3	.838	12.5	12.4	97	.074	ssw	0-1	10	Str.	...	...		
4	.840	11.1	11.0	97	.069	sw	0-2	10	Str.	...	...		
5	.845	9.9	9.9	100	.067	ssw	0-2	10	Str.	...	...		
6	.843	8.7	8.5	93	.059	s	1-2	10	Str.	...	...		
7	.848	7.7	7.6	96	.059	ssw	2-3	9	K.	...	...		
8	.857	7.9	7.9	100	.062	s	0-1	9	Str.	...	...		
9	.850	7.7	7.1	80	.049	sw	2-3	10	Str.	...	...		
10	.888	7.7	7.7	100	.061	sw	1-2	10	Str.	...	...		
11	.901	7.7	7.7	100	.061	sw	1-2	10	Str.	...	...		
12	.900	6.9	6.7	91	.054	sw	2-3	10	K.	...	...		
13	.906	6.9	6.8	97	.057	sw	2-3	10	K.	...	...		
14	.906	7.4	7.1	90	.054	sw	1-2	10	K. st.	...	...		
15	.907	7.7	7.5	83	.057	sw	1-3	10	K. st.	...	...		
16	.949	6.9	6.9	100	.059	sw	2-3	10	K.	...	...		
17	.963	7.1	7.1	100	.060	sw	1-2	10	K. st.	...	...		
18	.984	7.0	7.0	100	.060	sw	1-2	10	Str.	...	...		
19	.998	7.4	7.3	97	.058	sw	1-2	10	Str.	...	...		
20	29.002	7.6	7.5	97	.059	sw	1-3	10	Str.	...	...		
21	.017	7.9	7.8	97	.060	sw	1-3	10	Str.	...	...		
22	.033	7.9	7.8	97	.060	sw	0-2	10	Str.	...	...		
23	.046	7.9	7.9	100	.062	sw	1-3	8	Str.	...	...		
Mdt.	.069	8.1	8.1	100	.062	sw	0-2	10	Str.	...	...		
Means.	28.920	8.5	8.4	96.0	.061	...	1.5	9.8	...	...	...		

VOYAGE OF THE SCOTIA, 1902-1904.

47

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True,		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
NOVEMBER, 27 1903.												3 miles north of Dibden Islands, South Orkneys.
14	28.895	29.0	27.0	67	106	SW	3-4	8	Str.	...	2-3	
15	920	28.8	26.5	62	099	SW	3-4	10	Str.	...	2-3	
16	930	28.8	26.5	62	099	SW	3-4	10	Str.	...	1	
17	920	28.5	27.8	86	136	WSW	2	10	Str.	...	1	
18	924	29.0	28.8	96	154	SW	1-2	10	Str.	...	1	*
20	916	28.3	27.7	88	137	NW	1-2	10	Nim.	...	1	*
21	903	30.0	28.3	74	123	NW	0-1	10	Nim.	...	1	*
22	896	28.5	28.0	91	142	N	0-1	10	Nim.	...	1	*
23	871	29.0	28.5	91	145	N	0-1	10	Nim.	...	1	*
Mdt.	861	29.5	29.0	92	150	N	0-1	10	Nim.	...	1	* ⁰
NOVEMBER 28.												At noon, lat. 59° 43' S. long. 48° 10' W.
1	28.841	30.3	30.0	95	161	NNW	0-1	10	Mist	...	0-1	* ⁰
2	839	32.1	32.1	100	183	Calm	0	10	Mist	...	0-1	
3	821	31.1	31.0	99	172	Calm	0	10	Mist	...	0	* ⁰
4	807	31.0	30.8	96	168	Calm	0	10	Mist	...	0	No ice seen since 9 p.m. last night.
5	787	31.2	31.0	97	171	N	1	10	Mist	...	0	
6	770	31.4	31.4	100	177	NNW	0-1	10	Mist	...	0	
7	775	31.9	31.9	100	181	Calm	0	10	Mist	...	0-1	7.30. ☉ gleaming.
8	755	32.8	32.8	100	187	Calm	0	10	Fog	...	0	
9	742	33.0	32.9	99	186	E	0-1	10	Mist	...	0	
10	754	36.0	34.8	89	189	E	0	10	Mist	...	0-1	
11	743	32.6	32.5	99	184	E	0-1	10	Mist	...	0	
12	765	34.0	33.6	96	188	N	0-1	10	Fog	...	0-1	
13	761	34.3	34.0	97	192	Calm	0	10	Fog	...	2	
14	751	34.0	33.5	95	186	SW	0-1	10	Fog	...	3	
15	762	33.0	32.4	93	175	W	0-1	10	Mist	...	0-1	
16	765	33.0	32.5	94	177	SW	1	10	Str.	...	3	
17	767	33.5	33.0	94	182	SW	0-1	10	Str.	...	3	
18	777	33.7	33.1	93	182	SW	0-1	10	Str.	...	0-1	
19	787	33.8	33.2	93	182	Calm	0	10	Fog	...	1	* ⁰
20	791	32.8	32.5	97	181	WSW	0-1	10	Nim.	...	1	* ⁰
21	780	32.0	32.0	100	182	SW	1-2	10	Str.	...	2-3	* ⁰
22	794	32.0	32.0	100	182	WSW	2	8	Str.	...	2	
23	797	32.0	32.0	100	182	WSW	2-3	10	Str.	...	2	
Mdt.	796	29.5	28.5	83	138	W	1-2	10	Fog	...	2	
Means.	28.780	32.5	32.2	96.2	179	...	0.6	9.9	...	...	1.0	
NOVEMBER 29.												At noon, lat. 58° 28' S. long. 51° 56' W.
1	28.777	31.6	31.1	94	168	WNW	1	10	Str.	...	2	
2	774	32.3	32.1	98	180	NW	1-2	10	Str.	...	2	
3	772	33.1	33.0	99	187	NW	1-2	10	Mist	...	2	
4	764	33.1	32.8	96	182	W	2	10	Str.	...	2	
5	767	32.9	32.6	97	182	W	2-3	10	Str.	...	2	
6	778	32.9	32.6	97	182	W	2-3	10	Str.	...	2	
7	798	32.2	32.0	98	179	W	3	10	Str.	...	2-3	
8	796	32.2	32.0	98	179	W	4	10	Str.	...	2	
9	799	31.8	31.8	100	180	W	4	10	Str.	...	2	☉ gleaming brightly.
10	789	31.5	31.5	100	178	W	3	9	Str.	...	2	
11	817	33.8	31.9	81	156	W	2	10	Str.	...	1-2	☉ shining.
12	820	31.8	31.8	100	180	W	2-3	6	Cum.	...	1-2	☉
13	812	32.0	31.6	94	172	SW	2	7	Str.	Cir str.	0-1	☉
14	818	32.3	30.8	82	150	W	3-4	6	Cum.	...	2	☉
15	820	33.9	31.5	76	148	W	3	10	Cum.	...	2	☉
16	801	34.4	32.0	76	153	SSW	1	7	Str.	...	2	☉
17	796	34.8	32.5	78	158	SE	1	3	Str.	...	2	☉
18	801	33.7	31.8	80	155	Calm	0	7	Cum.	Cir str.	2	☉
19	820	32.8	30.9	79	147	NE	1	8	Str., Cum. str.	...	2-3	☉
20	820	32.6	30.8	79	147	ESE	1-2	10	Cum str.	...	2-3	☉
21	826	32.0	30.0	75	137	ESE	1-2	10	St. & Cum. st.	...	2	☉
22	803	32.0	29.2	67	121	SE	1-2	9	Str.	...	1-2	☉
23	818	32.0	30.0	75	137	ESE	2	9	Str.	...	2	
Mdt.	840	32.0	30.0	75	137	ESE	2	10	Str.	...	1-2	
Means.	28.801	32.7	31.5	87.2	162	...	2.0	8.8	...	...	1.9	

METEOROLOGICAL OBSERVATIONS MADE DURING THE

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Rain, 0-6.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
NOVEMBER 30, 1903.												
At noon, lat. 57° 10' S. long. 55° 35' W.												
1	28.843	31.8	29.8	75	.135	ESE	2-3	4	Cum str.	Cir.	2	
2	.846	31.9	29.8	74	.134	ESE	2	8	Cum str.	...	2	
3	.860	32.0	29.6	71	.129	SSE	3	9	Cum str.	...	2	
4	.889	31.9	29.4	70	.126	SE	1-2	9	Cm., Cm. str.	...	2	
5	.907	31.5	29.0	68	.123	SE	2	9	Cum str.	...	1-2	
6	.914	31.3	29.0	70	.124	ESE	2	10	Cum str.	...	2	
7	.931	31.0	29.2	74	.131	ESE	2	10	Str.	...	1-2	
8	.929	30.8	29.0	80	.136	ESE	2	10	Str.	...	2	
9	.944	30.3	29.1	81	.139	E	2	10	Str.	...	1-2	*
10	.947	29.2	28.8	93	.150	E	2-3	10	Nim.	...	1-2	*
11	.965	28.9	28.8	98	.157	ESE	2-3	10	Nim.	...	1-2	*
12	.969	29.0	28.9	98	.157	SE	2-3	10	Nim.	...	2	*
13	.981	29.0	28.8	96	.154	SE	2-3	10	Nim.	...	1-2	* ☉ gleaming.
14	.996	29.7	29.0	88	.146	SE	2-3	10	Cum.	Cir.	2	
15	.996	29.7	28.8	85	.141	SSE	3	2	Cum.	...	2	☉ shining.
16	29.012	30.8	29.3	78	.136	SSE	2	8	Cir cum.	...	2	☉ "
17	.037	30.8	29.5	81	.140	SE	2	9	Cum str.	...	2	
18	.052	30.8	29.9	87	.150	SE	3	10	Cum str.	...	2	
19	.066	30.8	29.5	81	.140	SE	2	10	Cum str.	...	1-2	
20	.074	31.1	29.5	77	.136	SE	2-3	9	Cm., Cm. str.	...	2	
21	.083	31.0	30.0	85	.118	SSW	3	10	Str.	...	3	
22	.086	31.0	30.0	85	.148	S	3	10	Str.	...	3	
23	.115	31.5	29.5	74	.132	S	3	10	Str.	...	3	
Mdt.	.112	31.5	29.9	79	.141	SW	2	10	Cum str.	...	3	
Means.	28.982	30.7	29.3	81.2	.140	...	2.4	9.0	...	.	2.0	
DECEMBER 1.												
At noon, lat. 54° 55' S. long. 57° 28' W.												
1	29.118	30.0	29.0	88	.140	S	3	10	Str.	...	3	
2	.128	31.5	29.9	79	.140	SSW	3	10	Str.	...	3	
3	.126	31.5	30.0	80	.142	SSW	3	10	Str.	...	3	
4	.146	31.6	30.2	81	.146	SSW	3	9	Cum.	...	3	
5	.163	32.1	29.8	72	.132	S	2-3	8	Cum.	Cir.	2	☉ shining.
6	.170	32.3	30.1	74	.137	SSW	2-3	3	Cum.	...	2-3	☉ " Passing ● shower to W.
7	.167	31.2	29.8	80	.141	SW	2-3	2	Cum.	...	2-3	☉ "
8	.166	33.2	31.2	79	.149	S	3	3	Str.	...	2-3	☉ "
9	.174	33.6	31.7	80	.154	S	2-3	5	Cum.	Cir cum.	2	
10	.175	34.0	31.3	74	.144	SW	2-3	3	Cum & Scud.	...	2-3	
11	.186	34.0	31.0	71	.138	S	3	6	Str.	...	3	Showery in W.
12	.205	34.3	32.0	77	.154	SSW	2-3	9	Cm. & Cm. st.	...	2-3	
13	.209	34.9	32.3	76	.154	S	2	10	Cm. & Cm. st.	...	2	
14	.217	35.6	32.7	74	.155	S	1-2	9	Cm. & Cm. st.	...	1-2	Lower clouds moving N. W.
15	.207	35.4	32.0	70	.146	S	2-3	8	Cum & str.	...	3	☉ shining.
16	.221	36.0	32.8	72	.155	SW	3	4	Cum.	...	3	
17	.222	35.3	32.5	74	.154	S	1-2	7	Cm. & Cm. st.	...	2	Showery in W.
18	.235	34.3	32.5	82	.163	S	1-2	6	Cm. & Cm. st.	...	1-2	" in S. W. and N.
19	.260	33.8	32.7	88	.172	SSE	2-3	10	Cm. & Cm. st.	...	2	
20	.236	35.3	34.0	88	.181	S	2-3	9	Cum.	...	3	
21	.247	34.8	33.2	84	.170	SSE	3	9	Cum.	...	3	
22	.241	33.0	32.0	89	.167	SE	2-3	5	Str.	...	2	
23	.258	34.0	32.0	79	.156	SSE	0-1	7	Str.	...	1	
Mdt.	.257	32.5	32.5	100	.185	SW	3	8	Nim.	...	2	*
Means.	29.197	33.5	31.5	79.4	.158	...	2.5	7.1	...	...	2.4	

VOYAGE OF THE SCOTIA, 1902-1904.

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Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
DECEMBER 2, 1903.												At noon, lat. 52° 11' S. long. 57° 55' W.
1	29.265	32.5	32.0	94	.174	SE	1	6	Str.	...	1	☉ ☉<

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea. 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
DECEMBER 7, 1903.													At Port Stanley.
24	29.606	43.2	42.0	90	.253	Calm	0	...	0	...	...		
DECEMBER 8.													At Port Stanley.
4	29.602	40.9	39.8	91	.233	w	0	9	0	Cir. & Cir str.	...		
8	.537	48.3	46.7	89	.299	NW	0-1	10	K. str.	...	...		
DECEMBER 9.													At Port Stanley.
8	29.436	39.8	39.2	96	.232	sw	4	9	Nim.	...	...	▲	
12	.454	41.8	41.5	98	.258	sw	6	8	K.	...	4-5		
16	.550	42.8	42.5	98	.268	sw	6-7	8	K.	...	5		
20	.643	43.0	42.0	92	.255	sw	5-6	1	K.	...	6-7		
DECEMBER 10.													At noon, lat. 48° 22' S. long. 56° 49' W.
8	29.902	45.8	45.3	96	.297	sw	4-5	8	K.	...	4		
12	.982	46.0	45.8	99	.306	WSW	4	1	...	Cir. K.	4		
16	30.025	46.8	46.6	98	.318	WSW	3	2	...	Cir. K.	2-3		
20	.026	45.0	45.0	100	.299	NW	2-3	2	...	Cir str.	2		
24	29.966	45.0	45.0	100	.299	NNW	1	0	...	...	2		
DECEMBER 11.													At noon, lat. 46° 14' S. long. 56° 10' W.
8	29.778	50.0	47.0	80	.286	NW	7	3	...	Cir.	5		
12	.803	49.8	48.6	91	.328	NW	6-7	4	...	Cir str.	5		
16	.863	50.2	49.4	95	.343	w	3-4	2	...	Cir str.	4		
20	.945	50.0	49.0	93	.334	sw	0-1	1	...	Cir.	3		
DECEMBER 12.													At noon, lat. 44° 8' S. long. 57° 30' W.
8	29.990	51.8	50.5	91	.351	NNW	3	3	...	Cir str.	2		
12	.964	51.5	51.4	99	.378	N	3	2	...	Cir str.	2		
16	.940	53.0	52.9	99	.400	NNW	3-4	0	...	...	2-3		
20	.937	50.8	49.6	91	.341	NNW	3	0	...	...	2		
DECEMBER 13.													At noon, lat. 42° 30' S. long. 59° 18' W.
8	30.009	51.0	51.0	100	.374	NNW	3	2	...	Cir. K.	2-3		
12	.005	53.0	53.0	100	.403	NW	3	4	...	Cir. K.	2-3		
16	.025	53.4	53.4	100	.409	N	2	4	...	Cir. K.	2		
20	.068	52.2	52.2	100	.391	NNE	1-2	0	...	...	1-2		
24	.150	52.0	52.0	100	.388	NE	0-1	0	...	...	1-2		
DECEMBER 14.													At noon, lat. 40° 32' S. long. 58° 33' W.
8	30.193	54.2	54.2	100	.421	NE	1-2	0	...	...	0-1		
12	.220	56.0	55.8	99	.443	NNE	2	3	...	Cir. K.	1-2		
16	.209	57.0	56.7	98	.456	NNE	2	0	...	...	1		
20	.188	57.0	56.7	98	.456	NE	3-4	3	...	Cir. K.	1-2		

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-6.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
DECEMBER 15, 1903.													Off Cape Corrientes. Lat. 38° 24' S. long. 57° 42' W.
8	30.213	61.5	61.0	97	.528	NE	3	2	...	Cir. K.	1		
12	.172	62.3	61.0	92	.516	NE	3-4	6	...	Cir. K.	1-2		
17	.152	62.3	61.3	94	.527	NE	3-4	6	...	Cir str.	2		
20	.117	63.0	62.0	94	.540	NE	4	7	...	Cir str.	2-3		
DECEMBER 16.													Off Cape Corrientes.
8	30.177	62.0	62.0	100	.556	NE	3	1	...	Cir str.	2		
12	.146	63.0	62.7	98	.565	NE	4	6	K.	...	1-2		
16	.088	64.3	63.3	94	.566	NE	4-5	0	...	...	3		
20	.088	62.3	62.0	98	.553	NE	2-3	6	...	Cir. K.	2-3		
DECEMBER 17.													Off Cape Corrientes.
8	30.088	62.0	61.1	95	.524	NE	3-4	9	K. & K. st.	...	2-3		
12	.075	63.3	63.2	99	.578	NE	4-5	9	K.	...	2-3		
16	.008	64.3	64.3	100	.602	NE	3-4	8	K.	...	2-3		
20	.020	65.0	65.0	100	.617	NE	1-2	10	K. str.	...	2		
DECEMBER 18.													Off Cape Corrientes.
8	29.952	64.0	64.0	100	.596	NE	2-3	10	Nim.	...	2-3	●	
12	.904	66.2	66.2	100	.643	NE	3	10	Nim.	...	2-3	●	
16	.840	65.8	65.7	99	.630	NNE	2-3	10	Str.	...	2	●	
20	.803	66.2	66.2	100	.643	NE	3-4	10	Nim.	...	2-3	●	
DECEMBER 19.													Off Cape Corrientes.
8	29.594	65.0	65.0	100	.617	ENE	2	10	Nim.	...	3	●	
12	.352	66.5	66.5	100	.650	NE	2	10	Str.	...	3	●	
16	.397	67.5	67.0	97	.652	WNW	3-4	9	Nim. & K.	...	3	●	
20	.487	65.3	65.0	98	.612	W	4-5	10	Nim.	...	3	●	
24	.563	65.2	65.0	99	.614	NW	2-3	...	...	...	2	●	
DECEMBER 20.													Off Cape Corrientes.
8	29.637	66.6	63.4	82	.535	WSW	1-2	0	...	...	1-2		
12	.729	70.0	66.0	78	.576	SSW	2-3	0	...	...	2		
16	.863	65.8	62.0	79	.499	SSW	4-5	0	...	...	3		
20	.945	64.5	62.0	85	.517	S	3-4	0	...	...	3		
24	.985	64.0	62.2	89	.532	SE	3	1	Str.	...	3		
DECEMBER 21.													Orty Bank.
8	30.015	65.0	63.0	88	.544	NE	2	3	...	Cir. K.	0-1		
10	.031	67.6	64.9	85	.573	E	1-2	4	...	Cir. K.	0-1		
12	.024	66.9	65.2	90	.595	E	1-2	5	...	Cir. K.	0-1		
16	29.945	67.8	66.7	93	.636	E	3	3	...	Cir. K.	1-2		
20	.904	70.8	70.0	95	.718	E	3	0	...	...	1-2		
DECEMBER 22.													Orty Bank.
8	29.906	69.5	69.5	100	.720	NNE	0-1	8	K.	...	0		
12	.868	74.4	73.0	92	.785	NNW	0-1	6	...	Cir. K.	0		
16	.786	77.5	75.0	86	.819	Calm	0	4	...	Cir. K.	0		
20	.794	74.3	74.3	100	.848	NE	1-2	1	...	Cir str.	0		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.		
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.	
DECEMBER 23, 1903.												At Buenos Aires.	
4	29.786	74.0	74.0	100	.840	NNW	1-2	1	...	Cir.	...		
6	.817	74.6	74.0	96	.828	WNW	1-2	0	...	...	...		
8	.839	76.0	75.0	94	.848	NNW	1	2	...	Cir.	...		
12	.806	79.0	79.0	100	.990	NW	1-2	2	K.	Cir str.	...		
16	.781	79.0	78.0	95	.937	Calm	0	10	Str.	...	...		
18	.740	78.3	76.0	88	.852	Calm	0	10	Str.	...	...		
20	.751	78.0	76.0	89	.857	E	0-1	10	K.	...	...		
DECEMBER 24.												At Buenos Aires.	
8	29.765	77.4	73.5	80	.754	N	2	1	...	Cir.	...		
12	.695	84.0	79.0	76	.888	Calm	0	1	...	Cir str, cir.	...		
JANUARY 22, 1904.												At noon, lat. 35° 11' S. long. 57° 1' W.	
8	29.987	68.8	...	...	...	WSW	3	4	K.	Cir.	1	Lower clouds moving N.N.W. " " " N.N.W. " " " N.N.W. " " " N.N.W.	
9	30.019	70.1	...	...	...	SSE	3	2	K.	...	1		
10	.045	69.3	...	...	...	SSE	3	4	K.	...	1		
11	.060	71.8	...	...	...	SSE	3	2	K.	...	1		
12	.063	70.9	...	...	...	SSE	3	3	K.	...	1		
13	.049	73.0	63.0	54	.443	S	2	0	...	...	0-1		
14	.039	73.0	61.6	50	.406	SE	2	0	...	...	0		
15	.026	71.2	62.5	58	.448	SE	1-2	0	...	...	0		
16	.012	71.0	62.6	59	.453	SE	1	0	...	...	0		
17	.015	72.6	62.3	53	.428	E	2	0	...	...	0		
18	.020	71.8	62.2	56	.434	E	1-2	0	...	...	0	∞ toward E. horizon.	
19	.034	70.6	62.2	60	.446	E	2	0	...	...	0		
20	.047	70.3	62.2	61	.449	SSE	1	0	...	...	0		
21	.069	70.1	62.8	64	.469	SE	1-2	0	...	...	0		
22	.066	70.0	62.8	64	.470	ESE	1-2	0	...	...	0		
23	.070	69.8	62.3	63	.457	ESE	1-2	0	...	...	0		
Mdt.	.084	69.7	63.0	66	.479	ESE	1-2	0	...	...	0		
JANUARY 23.												At noon, lat. 36° 57' S. long. 55° 45' W.	
1	30.060	69.3	62.8	66	.477	SE	1	0	...	...	0	Cum bank above horizon towards [N.W.]	
2	.048	69.2	62.5	65	.470	Calm	0	0	...	...	0		
3	.053	69.0	62.0	64	.457	SE	0-1	0	...	...	1		
4	.057	69.1	62.6	66	.473	N	0-1	0	...	...	0		
5	.067	69.8	62.4	64	.460	NNW	0-1	0	...	...	0-1		
6	.085	70.8	62.9	62	.465	NNW	1	0	...	...	1		
7	.080	71.2	64.0	64	.492	NW	1	0	...	...	1		
8	.082	71.4	64.8	67	.516	NNW	2	0	...	...	1		
9	.055	72.0	65.8	69	.540	NW	2	0	...	...	1		
10	.079	72.8	66.6	70	.557	WNW	2	0	...	...	1		
11	.063	72.5	66.4	69	.554	WNW	3-4	0	...	...	1		
12	.037	72.5	66.5	70	.557	NW	3	0	...	...	1		
13	.050	73.1	67.6	72	.589	WNW	1-2	0	...	...	1-2		
14	.030	73.0	67.6	72	.590	WNW	1	0	...	...	1		
15	(.005)	(73.0)	(68.0)	(74)	(.604)	(WNW)	(1)	0	...	...	1		
16	29.981	73.2	68.4	75	.616	WNW	1	0	...	...	1		
17	.982	72.8	69.0	80	.644	WNW	1	0	...	...	1		
18	.968	72.3	68.9	82	.647	NNW	0-1	0	...	...	0-1		
19	.963	70.3	67.8	85	.638	NW	0-1	0	...	...	0-1		
20	.970	69.8	67.0	84	.615	NW	1-2	0	...	...	0		
21	.974	69.4	66.8	85	.613	NW	2	0	...	...	0		
22	.968	69.0	66.5	86	.606	NNW	2	0	...	...	0		
23	.963	68.8	66.2	85	.599	NNW	2	0	...	...	2		
Mdt.	.939	68.2	66.0	87	.602	NNW	3	0	...	...	2		
Means.	30.023	70.9	65.8	73.5	.557	...	1.4	...	...	...	0.8		

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
JANUARY 24, 1904.													At noon, lat. 39° 24' S. long. 55° 02' W.
1	29·918	68·0	65·3	85	·580	NNW	3	0	...	...	2	Sea very luminous. p p ∞ round horizon. ∞ " W. " ∞ " W. " Cum towards S.W. horizon. Upper clouds moving S.W. Clouds moving N. Cir. K. Cir. Cir str.	
2	·902	67·5	65·0	85	·577	NNW	3	0	...	...	2		
3	·886	67·0	65·0	88	·585	NNW	3	0	...	...	2		
4	·897	66·4	64·8	91	·588	W	1	0	...	...	2		
5	·901	66·3	65·0	92	·596	W	1-2	0	...	...	1		
6	·911	66·9	65·0	89	·587	W	1-2	0	...	...	1		
7	·911	64·8	64·2	96	·590	NW	1	0	...	...	1-2		
8	·902	65·2	63·4	89	·555	W	1-2	0	...	...	1		
9	·907	64·7	62·9	89	·546	W	2	0	...	...	1		
10	·896	63·7	62·2	91	·536	W	1-2	0	...	...	1		
11	·881	65·1	62·8	86	·536	W	1	0	...	...	1		
12	·854	63·4	61·8	91	·527	WNW	0-1	0	...	...	0-1		
13	·843	62·3	60·9	91	·513	W	0-1	0	...	...	0-1		
14	·822	62·3	60·8	91	·509	W	1	0	...	...	1		
15	·844	61·8	60·0	89	·490	W	1	2	...	Cir.	1		
16	·826	61·2	59·5	90	·484	WSW	2-3	5	...	Cir. K.	1		
17	·841	59·6	58·2	91	·466	SSW	2-3	2	K.	Cir.	1		
18	·855	60·0	58·0	88	·453	SSW	3	3	...	Cir.	1-2		
19	·873	59·5	57·9	90	·457	SSW	3	2	...	Cir str.	1-2		
20	·897	60·2	57·9	86	·447	SSW	3-4	0	...	...	2		
21	·922	60·5	58·3	87	·456	SSW	3	0	...	...	1-2		
22	·942	61·0	59·0	88	·470	SSW	3	0	...	...	2-3		
23	·942	60·5	57·2	80	·422	S	3	0	...	...	2-3		
Mdt.	·943	60·2	56·2	76	·399	S	3-4	0	...	...	2-3		
Means.	29·888	63·3	61·3	88·3	·515	...	2·1	0·6	...	...	1·4		
JANUARY 25.													At noon, lat. 40° 59' S. long. 55° 04' W.
1	29·950	60·0	56·3	78	·403	S	3-4	...	...	...	2-3	Cum bank on horizon from N. to E. Cir str. over S. horizon.	
2	·925	59·5	55·5	76	·388	S	3	1	K.	...	2-3		
3	·930	59·0	55·0	76	·380	S	3	...	...	...	2-3		
4	·932	59·1	56·2	82	·412	S	1-2	1	K. str.	...	2		
5	·944	59·2	56·0	81	·405	S	1-2	1	...	Cir.	2-3		
6	·962	59·9	55·1	72	·373	S	1-2	...	...	...	2		
7	·961	59·4	55·6	78	·392	SSE	1-2	...	...	...	2		
8	·948	59·6	54·8	72	·369	SSE	2	...	...	...	2		
9	·963	59·9	54·9	71	·368	SSE	1-2	...	...	...	1-2		
10	·969	60·0	53·7	65	·337	SSW	1-2	...	...	...	1-2		
11	·965	60·0	53·8	65	·339	SSW	1-2	1	K.	...	1-2		
12	·977	58·0	52·8	70	·337	SSW	1-2	1	K.	...	1-2		
13	·957	58·0	52·3	68	·325	SSW	1-2	1	K.	...	1-2		
14	·945	57·2	51·3	66	·309	SSW	1-2	1	K.	...	1-2		
15	·929	57·0	50·1	61	·285	SSW	1-2	1	K.	...	1-2		
16	·938	56·6	50·0	63	·288	SSW	1-2	...	...	...	1-1		
17	·918	56·0	50·8	69	·313	SSW	1-2	...	...	...	2		
18	·900	55·7	50·0	66	·297	SW	2-3	...	...	...	1-2		
19	·880	55·2	49·0	64	·279	W	2-3	...	...	...	1-2		
20	·896	56·3	49·9	64	·290	W	3-4	...	...	...	1-2		
21	·894	56·2	50·0	64	·293	WSW	4	...	...	...	1-2		
22	·865	56·8	52·8	76	·350	WSW	4	...	...	...	2-3		
23	·835	57·0	54·0	81	·377	WSW	4	...	...	...	3		
Mdt.	·790	57·2	54·2	81	·381	WSW	5	4	K.	...	3		
Means.	29·924	58·0	53·1	71	·345	...	2·3	0·5	...	...	1·9		

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
JANUARY 26, 1904.													At noon, lat. 43° 10' S. long. 54° 17' W.
1	29.776	55.5	51.0	72	.321	SE	4-5	10	Nim.	...	3	●	
2	.776	55.8	52.0	76	.342	SE	4	4	K.	...	3		
3	.771	55.7	52.5	80	.356	S	4	4	K.	...	3		
4	.760	55.1	50.3	71	.308	SSW	4-5	4	K. str.	...	3		
5	.771	55.3	51.2	74	.328	SW	4-5	6	K.	...	3		
6	.801	55.0	48.9	65	.278	SW	5	5	K.	Cir.	3	⊙	
7	.797	55.0	49.4	67	.289	WSW	5	5	K.	Cir.	2	⊙	
8	.789	54.0	49.6	72	.301	WSW	5	6	K.	Cir.	3-4	⊙	
9	.781	54.0	49.1	70	.290	WSW	4-5	5	K.	...	3-4	⊙	
10	.766	53.7	49.3	72	.298	WSW	4-5	3	K.	...	2-3	⊙	
11	.776	52.8	47.8	69	.276	SSW	4-5	3	K.	...	3-4	⊙	
12	.758	52.9	47.9	69	.277	SSW	5	3	K.	...	3-4	⊙	
13	.783	47.0	47.0	100	.323	S	6	8	Nim.	...	3-4	⊙	
14	.781	50.8	48.0	81	.301	SSW	4	5	Nim.	Cir. K.	3-4	⊙	
15	.788	51.8	49.6	85	.328	SW	5	5	Nim.	Cir. K.	4	⊙	
16	.795	52.8	50.3	83	.333	SW	5	4	K. nim.	Cir.	4	⊙	
17	.815	51.2	49.5	89	.333	SW	5	5	Nim.	Cir. K.	4	⊙	
18	.837	52.2	48.6	77	.299	S	6	8	K. nim.	...	3	q.	
19	.856	53.0	50.5	83	.335	SSW	4-5	8	K. nim.	...	3		
20	.898	53.3	48.3	71	.292	SW	4-5	8	K. nim.	...	3		
21	.927	50.8	47.0	75	.278	S	4-5	3	K.	...	3		
22	.931	51.0	47.0	74	.276	SSE	4	7	K.	...	3-4		
23	.946	50.0	47.0	80	.286	S	4	10	Nim.	...	3-4		
Mdt.	.950	51.8	48.0	75	.290	SE	4	4	K.	...	3-4		
Means.	29.818	52.9	49.2	76.2	.306	...	4.7	5.5	...	...	3.2		
JANUARY 27.													At noon, lat. 43° 33' S. long. 55° 7' W.
1	29.955	52.3	50.0	84	.331	SSE	4	8	K.	...	3	●	
2	.972	50.0	47.8	85	.304	SSW	3	10	Nim.	...	3	●	
3	30.002	50.0	49.0	93	.334	S	4	10	Nim.	...	4	●	
4	.045	51.3	49.2	85	.324	SE	2	5	Nim.	...	1	●	
5	.075	52.0	50.2	87	.340	SSE	1-2	4	K. nim.	...	1-2	⊙	
6	.087	54.1	50.1	75	.311	SSE	1-2	6	K. & K. str.	...	1-2	⊙	
7	.112	53.8	51.3	83	.345	SSW	2	6	K. nim.	C r. K.	2	⊙	
8	.123	54.3	51.3	80	.339	SW	1-2	6	K. nim.	...	1-2	⊙	
9	.151	54.9	51.2	76	.331	SSW	1-2	6	K.	Cir str.	1	⊙	
10	.164	54.9	51.9	80	.349	SSW	1-2	7	K.	Cir str.	1	⊙	
11	.175	54.7	50.8	76	.323	SSW	1	8	K.	Cir str.	1	⊙	
12	.189	54.7	51.8	81	.349	SSW	1-2	10	K.	Cir str.	1	⊙	
13	.200	54.8	51.0	76	.327	WSW	1-2	6	K.	Cir str.	1	⊙	
14	.191	54.0	49.1	70	.290	SSW	1-2	9	K.	Cir str.	1	⊙	
15	.169	54.0	49.0	69	.288	SSW	1-2	7	K.	Cir str.	1	⊙	
16	.171	53.8	49.5	73	.302	SW	2	3	K.	Str.	2	⊙	
17	.163	53.8	49.3	72	.297	SW	2	2	K.	...	2	⊙	
18	.165	54.1	50.2	75	.314	SW	4	2	K. str.	...	2	⊙	
19	.181	54.8	51.5	79	.340	SW	4	6	K. str.	...	2-3	⊙	
20	.166	55.0	52.2	82	.354	WSW	4-5	6	K. str.	...	2-3	⊙	
21	.156	55.2	52.6	84	.363	SW	3-4	10	K. str.	...	2-3	⊙	
22	.131	56.0	54.0	87	.391	WSW	3	10	K. str.	...	3-4	⊙	
23	.126	56.3	54.3	87	.395	SW	3-4	10	K. str.	...	3-4	⊙	
Mdt.	.101	56.3	54.3	87	.395	SW	4	10	K. str.	...	3-4	⊙	
Means.	30.124	54.0	50.9	80.2	.335	...	2.5	6.9	...	...	2.0		

VOYAGE OF THE SCOTIA, 1902-1904.

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Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True,		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
JANUARY 28, 1904.													At noon, lat. 45° 31' S. long. 55° 21' W.
1	80.096	57.0	55.0	87	405	sw	3-4	10	K. str.	...	3-4		
2	076	56.3	54.7	89	411	sw	3-4	10	K. str.	...	3-4		
3	050	56.5	55.0	90	412	sw	3-4	7	K.	...	3-4		
4	062	56.5	55.0	90	412	wsW	4	9	K. str.	...	3-4		
5	067	56.2	55.0	92	416	wsW	4	9	K.	...	3		
6	069	55.6	54.4	92	408	wsW	3-4	9	K.	...	3	☉	
7	093	55.2	54.1	93	404	sw	2	5	Nim.	Cir str.	2	☉	
8	098	55.5	54.7	95	418	ssW	1-2	10	K. str.	...	1-2		
9	094	55.2	54.0	92	401	ssW	1-2	10	K. str.	...	1		
10	099	55.3	53.4	87	383	ssW	1-2	7	K. str.	...	1	☉	
11	105	55.0	53.0	87	375	ssW	2	10	K. str.	...	1		
12	105	55.5	53.2	85	376	ssW	1	9	Str.	...	1		
13	097	56.8	53.7	80	372	ssW	0-1	10	Str.	...	0-1		
14	077	57.2	54.0	80	375	ssW	0-1	10	Str.	...	0-1		
15	063	55.0	52.8	86	370	sw	1	10	Str.	...	0		
16	052	55.4	53.5	88	385	sw	1	10	K. str.	...	0		
17	050	54.4	52.8	90	378	sw	1	10	K. str.	...	0		
18	051	55.8	54.3	90	402	w	1-2	10	K. str.	...	0-1		
19	053	56.0	54.8	92	413	NW	1-2	10	K. str.	...	0-1		
20	046	55.6	54.6	93	414	NW	2	7	...	Cir str.	0-1		
21	045	56.0	54.7	91	411	NW	2	2	...	Cir. K.	0-1		
22	044	55.3	54.0	91	399	w	2	9	K. str.	...	1		
23	036	55.2	54.0	92	401	w	2	10	K. str.	...	1		
Mdt.	002	54.5	53.0	90	381	WNW	1-2	7	Str.	...	1		
Means.	30 068	55.7	54.1	89.2	397	...	2.0	8.8	...	...	1.4		

JANUARY 29.													At noon, lat. 47° 47' S. long. 56° 08' W.
1	30.005	54.8	53.0	88	378	WNW	1-2	10	K. str.	...	1		
2	29.972	54.4	52.2	85	362	WNW	1-2	6	K. str.	...	1		
3	958	54.3	52.8	90	379	WNW	2	6	K.	...	1		
4	952	54.1	52.4	88	370	w	1	1	...	Cir. K.	0-1		
5	940	54.0	52.2	87	366	w	1-2	0	...	...	0-1	☉. Cir cum. and Cir str. round horizon.	
6	921	54.8	52.9	88	376	WNW	2	2	...	Cir str.	1	☉	
7	920	55.2	53.2	87	379	NW	2	1	...	Cir str.	1	☉	
8	902	55.4	53.3	87	379	WNW	1	9	Str.	Cir str.	1	☉. Upper clouds from S. W.	
9	855	55.3	53.2	86	378	NW	1-2	7	Str.	Cir.	1	☉. " " " S.E.	
10	845	55.5	54.0	90	397	WNW	2-3	5	Str.	Cir.	1	☉. " " " S.S.E.	
11	835	55.0	53.9	92	400	WNW	2	10	Str.	...	1	☉	
12	788	55.1	54.1	93	405	WNW	1-2	10	Str.	...	1	☉ towards S.	
13	778	54.8	54.2	95	412	WNW	2	10	K. str.	...	1	☉	
14	764	53.5	53.0	96	395	WNW	1	10	K. str.	...	1	☉	
15	760	51.6	51.2	97	372	w	1	10	K. str.	...	0-1	☉	
16	769	50.6	50.2	97	359	sw	1	10	K. str.	...	0	☉	
17	768	50.4	50.0	97	356	sw	0-1	10	K. str.	...	0-1	☉	
18	778	49.6	49.3	98	348	sw	2-3	10	K. str.	...	0-1	☉	
19	777	47.7	47.5	99	326	sw	2-3	10	K. str.	...	1-2	☉	
20	803	47.8	47.7	99	330	sw	2-3	10	K. str.	...	0-1	☉	
21	804	47.3	47.3	100	327	ssW	2-3	10	K. str.	...	0-1	☉	
22	823	47.5	47.3	98	324	sw	1	10	K. str.	...	0-1	☉. Swell W.N.W.	
23	823	47.0	47.0	100	328	sw	1-2	10	K. str.	...	0-1	☉	
Mdt.	820	46.5	46.5	100	317	sw	2	10	K. str.	...	0-1	☉	
Means.	29.848	52.2	51.2	93.2	365	...	1.7	7.8	...	...	0.8		

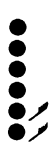
Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
JANUARY 30, 1904.													At noon, lat. 50° 03' S. long. 57° 58' W.
1	29·822	46·0	46·0	100	·311	WSW	2	10	Mist	...	1	Drizzle. Swell 2-3, W.N.W. 	
2	·819	46·0	46·0	100	·311	WSW	2	10	Mist	...	0-1	" " " 	
3	·824	47·0	47·0	100	·323	WSW	2-3	10	Mist	...	1	" " "	
4	·837	47·3	47·2	99	·324	WSW	1	10	Str.	...	0-1	" " "	
5	·831	48·2	48·1	100	·334	WSW	1	10	Str.	...	0-1	" " "	
6	·808	48·9	48·7	99	·341	W	1-2	10	K. str.	...	1	" " "	
7	·836	49·2	49·0	99	·345	SW	1	10	K. str.	...	1	●°	
8	·837	50·0	49·8	99	·356	WNW	2	10	K. str.	...	1-2	●°	
9	·815	50·0	50·0	100	·361	WNW	2	10	K. str.	...	1	Rainfall 24 h. = 31·5 cm.	
10	·813	50·2	50·0	99	·358	W	3	10	K. str.	...	1-2	" " "	
11	·814	50·6	50·4	99	·363	WSW	2-3	7	K. str.	...	1-2	" " "	
12	·825	51·2	51·0	99	·371	W	3	9	Str.	...	1	" " "	
13	·831	52·0	51·1	94	·364	W	4	2	Str.	...	1	" " "	
14	·829	52·0	51·0	93	·361	W	3	1	K.	...	1	" " "	
15	·839	51·8	50·6	91	·354	SW	2	0	...	...	1-2	" " "	
16	·845	51·8	49·8	87	·333	SW	2	2	K.	...	2	" " "	
17	·865	52·3	50·2	85	·336	S	1	8	K. str.	...	0-1	" " "	
18	·859	51·0	49·0	86	·323	S	1-2	9	K. str.	Cir. K.	0-1	" " "	
19	·866	50·5	47·6	81	·295	SE	0-1	10	K. str.	Cir. K.	0-1	" " "	
20	·855	50·0	47·9	85	·307	SE	1	10	K. str.	...	0-1	" " "	
21	·862	49·5	46·3	78	·277	SE	0-1	10	Str.	...	0-1	" " "	
22	·881	49·7	46·4	78	·277	NW	0-1	10	K. str.	...	0-1	" " "	
23	·884	50·0	46·3	76	·271	NNE	1	10	K. str.	...	0-1	" " "	
Mdt.	·876	50·0	46·8	79	·282	N	1-2	10	K. str.	...	1	" " "	
Means.	29·841	49·8	48·6	91·9	·328	...	1·8	8·2	...	...	0·9		
JANUARY 31.													At Port Stanley.
1	29·863	50·0	47·5	83	·298	N	2	10	K. str.	...	0-1	At Port Stanley.	
2	·836	50·0	47·3	82	·293	W	1-2	7	K. str.	...	0-1	Swell° N.N.E.	
3	·849	49·0	47·0	86	·298	SSW	2-3	10	K. str.	...	1	" "	
4	·854	49·0	46·8	85	·294	SW	1	8	K. str.	...	0	" "	
5	·846	51·3	46·5	70	·263	SSW	2	10	Str.	...	0	" "	
6	·857	49·3	47·3	86	·301	SW	2-3	10	Str.	...	0	" "	
7	·872	50·6	49·1	90	·330	SW	1-2	10	Str.	...	...	" "	
8	·863	52·8	49·3	77	·309	W	0-1	9	Str. & K. str.	...	...	" "	
9	·872	53·1	50·0	79	·321	W	0-1	10	K. str.	...	...	" "	
10	·879	55·1	52·0	80	·348	WSW	0-1	10	K. str.	...	...	" "	
12	·875	56·0	52·5	78	·353	SW	0-1	10	Str.	...	...	" "	
FEBRUARY 1.													At Port Stanley.
8	29·796	67·0	57·3	53	·355	SSW	4	4	0	Cir str.	...	⊙. Upper clouds from W.	
12	·669	72·2	60·0	47	·372	WNW	6	1	0	Cir str.	...	⊙. " " " S.S.W.	
FEBRUARY 2.													At Port Stanley.
8	29·502	62·9	59·0	77	·444	Calm	0	1	Str.	...	...	⊙	
FEBRUARY 3.													At Port Stanley.
8	29·246	54·8	53·6	92	·396	NW	2	10	K. str.	Cir str.	...		
12	·269	55·2	52·1	81	·350	SSW	3	10	K. str.	...	...		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
FEBRUARY 4, 1904.													At Port Stanley.
8 16	29.008 .658	52.2 54.6	48.0 49.5	73 61	.285 .278	w w	4 5	6 7	K. K. str.			☉	
FEBRUARY 5.													At Port Stanley.
8	29.439	55.3	52.9	84	.369	NW	4	7	Str.	...	...	☉	
FEBRUARY 6.													At Port Stanley.
8	29.492	53.2	49.4	75	.306	WNW	1	9	K. str.	...	...		
FEBRUARY 7.													At Port Stanley.
9	29.628	55.1	49.6	67	.292	WNW	1	8	K.	...	...	☉	
FEBRUARY 8.													At Port Stanley.
8	29.862	52.3	48.8	77	.302	WNW	1	1	K.	...	...		
FEBRUARY 9.													At Port Stanley.
8	29.772	55.8	53.2	83	.373	WSW	5	8	K. str.	...	...	☉ Off Cape Pembroke lighthouse.	
9	.762	56.9	54.0	82	.378	WNW	5	9	K. str.	...	...		
18	.830	57.4	52.3	70	.330	WSW	2-3	8	Str.	...	...		
19	.838	55.5	51.0	72	.321	WNW	1-2	9	Str.	...	0-1		
20	.854	53.7	51.0	82	.338	SSW	0-1	9	K. str.	...	0-1		
21	.851	51.6	49.9	88	.338	sw	0-1	4	Str.	...	1-2		
22	.862	51.8	49.6	85	.328	sw	1-2	3	Str.	...	1-2		
23	.857	50.1	49.0	92	.333	sw	0-1	2	Str.	...	0-1		
24	.840	49.5	48.5	93	.328	SSE	0-1	0	...	...	1		
FEBRUARY 10.													At noon, lat. 53° 22' S. long. 56° 5' W.
1	29.846	49.7	47.0	82	.290	sw	1-2	0	...	...	1-2	☉ Upper clouds from W. ☉ Upper clouds from W. ☉ Upper clouds from N.E. ☉ Upper clouds from N.E. ☉ <	

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VOYAGE OF THE SCOTIA, 1902-1904.

59

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.		
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.	
FEBRUARY 13, 1904.											At noon, lat. 59° 56' S. long. 49° 30' W.		
1	29.624	36.0	35.0	91	.193	SW	5	10	Str.	...	4		
2	.569	34.8	34.0	92	.186	SW	5	10	Nim.	...	3		
3	.509	36.2	35.4	93	.199	SW	5	10	Nim.	...	4		
4	.485	37.0	36.8	98	.216	WSW	5	10	Str.	...	4		
5	.463	36.9	36.4	96	.209	SW	5-6	10	Nim.	...	4		
6	.467	35.8	35.2	95	.199	WSW	5-6	10	Nim.	...	4		
7	.479	34.3	34.0	97	.192	SW	3	10	Nim.	...	4		
8	.503	34.4	34.0	96	.191	SW	4	10	Str.	...	3-4		
9	.505	34.1	32.8	86	.171	SW	4	7	K. str.	...	2-3		
10	.524	34.0	32.0	79	.156	WSW	4	10	Str.	...	3-4		
11	.534	34.0	32.1	80	.158	W	4	10	Str.	...	3-4		Lower clouds from S. W.
12	.559	33.7	31.5	77	.150	SW	4	6	K. str.	...	3-4		☉
13	.585	33.0	30.9	77	.145	SSW	5	9	K. str.	...	3		☉
14	.595	32.8	31.0	80	.149	SSW	4-5	10	K. str.	...	3		
15	.595	32.5	30.3	75	.139	SSW	4-5	7	K. & K. str.	...	3		
16	.597	32.5	30.8	80	.148	SSW	5-6	2	K. str.	...	3		↗
17	.611	33.0	31.0	78	.147	SSW	4-5	1	K.	...	3-4		
18	.614	33.0	31.0	78	.147	SW	5	8	K.	...	4-5		
19	.603	32.8	30.2	72	.135	SW	4-5	8	K.	...	4		
20	.608	32.8	30.8	78	.145	SW	4	1	K.	...	4		
21	.600	32.8	31.8	88	.166	SW	4-5	10	K. str.	...	4		
22	.604	32.8	30.6	76	.141	S	4-5	7	K.	...	4		
23	.641	32.2	30.2	76	.139	S	3-4	10	K. str.	...	4		
Mdt.	.660	31.8	30.2	79	.143	S	3-4	10	K. str.	...	4		
Means.	29.564	33.9	32.4	84.1	.165	...	4.5	8.2	...	...	3.6		
FEBRUARY 14.											At Coronation Island, South Orkneys.		
1	29.701	31.8	30.0	77	.139	S	3-4	10	K. str.	...	4		
2	.705	31.2	29.4	75	.133	S	4-5	10	K. str.	...	3-4		
3	.658	31.0	29.8	82	.143	S	4-5	10	K. str.	...	3		
4	.628	31.3	30.1	83	.147	S	4-5	10	Str.	...	2-3		
5	.625	31.8	30.1	78	.141	S	5-6	10	K. str.	...	2-3		
6	.617	32.3	31.0	84	.154	S	6	8	K. str.	...	2		
7	.616	33.4	31.8	83	.159	SSW	5-7	8	K. str. & Nm.	...	1-2		
8	.654	33.3	32.1	87	.166	S	3-4	10	Str.	...	2-3		
9	.641	33.0	32.2	91	.171	SW	3	10	Str.	...	2-3		
10	.660	33.4	32.4	89	.171	S	4	10	Str.	...	1-2		
11	.652	32.9	32.4	94	.177	SSW	3-4	10	Str.	...	3-4		
12	.676	33.8	32.1	82	.160	S	4-5	10	Str.	...	0-1		
13	.697	33.3	31.8	84	.160	SSE	2-3	10	K. str.	...	0		Anchored in Uruguay Cove, S. Orkneys.
14	.712	33.3	32.0	86	.164	ESE	2-3	10	K. str.	...	...		
15	.726	33.9	32.0	80	.157	SE	1-2	10	K. str.	...	...		
16	.744	33.9	32.0	80	.157	SSE	1-2	10	K. str.	...	...		
17	.755	33.0	31.7	85	.161	SE	1-2	10	K. str.	...	...		
18	.763	32.9	32.1	91	.171	S	3	10	K. str.	...	...		
19	.777	32.2	31.8	95	.174	S	3-4	10	K. str.	...	...		
FEBRUARY 15.											At Scotia Bay, South Orkneys.		
8	29.852	30.8	30.6	97	.167	SSE	2	10	Str.	...	...		
12	.869	30.3	30.2	98	.166	SSE	2-3	10	Str.	...	...		
16	.892	30.2	30.1	98	.166	SE	2	9	Str.	...	...		
20	.904	29.8	29.8	100	.166	FSE	0-1	10	K. str.	...	...		
FEBRUARY 16.											At Scotia Bay, South Orkneys.		
8	29.714	34.5	33.0	84	.170	NW	2	10	K. str.	...	...	*	
12	.587	33.2	33.0	98	.186	WNW	2	10	Str.	...	...		
16	.580	33.4	33.0	96	.183	WNW	1-2	10	Str.	...	...		
20	.581	33.6	32.4	87	.168	WSW	1-2	10	Str.	...	...		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.		
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.				
FEBRUARY 17, 1904.													At Scotia Bay, South Orkneys.	
8	29.585	33.9	32.1	81	.159	sw	1-2	8	K. str.	...	0-1	q.		
12	.584	33.8	37.1	79	.193	s	0-1	10	K. str.	...	...	q.		
20	.564	36.8	35.9	93	.201	WNW	0-1	10	Str.	...	...			
FEBRUARY 18.													At Scotia Bay, South Orkneys.	
8	29.451	35.8	35.2	95	.199	NW	3	10	Str.	...	...	q. 		
12	.377	36.5	35.9	95	.204	NW	4-5	10	Str.	...	...	q. 		
FEBRUARY 19.													At Scotia Bay, South Orkneys.	
8	29.249	35.8	32.2	69	.146	NW	0-1	9	K. str.	...	...			
12	.181	39.0	33.1	58	.136	NW	0-1	...	...	...	...	Cirrus radiating N.E. and S.W.		
20	28.863	34.9	34.4	95	.193	NW	5	10	Nim.	...	...	● *		
FEBRUARY 20.													At Scotia Bay, South Orkneys.	
8	28.552	33.0	31.0	78	.147	w	6	10	Str.	...	...	*° 		
20	.745	31.0	30.8	96	.168	sw	1-3	10	Str.	...	...			
FEBRUARY 21.													At Scotia Bay, South Orkneys.	
1	28.755	30.0	29.8	97	.161	ssw, var.	1-3	10	Str.	...	...	q°.		
2	.758	30.4	30.0	94	.159	s, var.	1-3	10	Str.	...	...	q°. Some heavy squalls during hour, but		
3	.759	30.8	30.6	97	.167	sw, var	1-4	10	Nim.	...	...	q * q=5 during hour. [not many.		
4	.781	30.5	30.5	100	.171	w	1-4	10	Nim.	...	...	q *.		
5	.796	30.3	30.0	99	.169	NW	1	10	Nim.	...	...	*		
6	.815	30.8	30.6	97	.167	wsW	1-3	10	Str.	sw x w	...	q°.		
7	.798	30.3	30.4	100	.169	w	1-3	10	Nim.	...	...	*q.		
8	.804	30.9	30.9	100	.173	NW	1-2	10	Nim.	...	...	*		
16	.859	31.7	31.7	100	.182	w	1-3	10	Str.	...	...	Wet bulb frozen.		
20	.862	30.0	27.5	63	.106	WNW	1-3	9	Str.	...	...	New moon visible.		
FEBRUARY 22.													At Scotia Bay, South Orkneys.	
8	28.831	29.8	29.8	100	.171	s	0-1	10	Str.	...	0			
10	.840	31.2	31.5	100	.176	Calm	0	10	Nim.	...	...	*°		
11	.860	32.6	32.6	100	.188	s	0	10	Nim.	...	...	*°		
12	.873	31.9	32.0	100	.181	sse	1-2	10	K. str.	...	0-1	Left Scotia Bay 11.40.		
13	.880	31.2	29.8	82	.149	sw	2-3	10	K. str.	...	(1)	Washington Strait.		
14	.904	31.2	29.1	71	.127	s	2	10	K. str.	...	1	Off Saddle Island Bay.		
15	.910	31.3	29.2	74	.139	s	2-3	9	K. str.	...	0-1	" " " "		
16	.919	31.2	29.8	83	.143	s	3	10	K. str.	...	1	" " " "		
17	.932	31.0	30.0	85	.148	s	1	10	K., mist	...	0-1	*. Cape Dundas E.S.E. 3-4 miles.		
18	.937	30.2	29.8	94	.157	s	3	10	Nim. & mist	...	0-1	*. " " bearing about S.E. in		
19	.932	31.0	30.3	89	.156	s	4	10	Nim.	...	1-2	*. " " S.W. x W. [mist.		
20	.946	30.9	30.0	86	.150	ssw	3-5	10	K.	...	2			
21	.951	30.7	30.0	90	.154	sw	4-5	10	K. str.	...	2			
22	.946	30.8	30.0	88	.155	s	4-5	10	K. str.	...	2-3			
23	.947	30.7	28.0	64	.110	s	4	10	K. str.	...	2-3			
Mdt.	.949	30.0	28.0	69	.116	sw	4	10	K. str.	...	3			

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
FEBRUARY 23, 1904.													At noon, lat. 61° 28' S. long. 41° 55' W.
1	28·950	29·5	27·8	73	·119	sw	4-5	7	K.	...	3	Stars shining.	
2	·955	29·0	27·2	70	·110	sw	4	7	K.	...	2-3	" "	
3	·956	29·0	28·0	82	·130	sw	4	9	K.	...	2-3	" "	
4	·955	29·1	28·2	85	·134	sw	3	10	K. str.	...	2		
5	·978	29·1	28·5	89	·143	sw	3	10	K. str.	...	2		
6	·959	29·1	28·6	91	·146	sw	4	10	K. str.	...	3	1 berg only.	
7	·951	29·6	29·2	93	·153	ssw	3-4	10	K. str.	...	3	2 bergs only.	
8	·964	29·9	29·1	86	·145	ssw	3	10	K. str.	...	2	1 berg only.	
9	·957	30·0	28·3	74	·123	ssw	4	10	K. nim.	...	2-3	*	
10	·961	30·3	28·1	69	·115	ssw	3-4	10	K. str.	...	2	1 berg.	
11	·954	30·2	28·4	73	·123	ssw	3-4	10	K.	...	2-3	⊙	
12	·962	30·0	28·1	71	·118	sw	3-4	10	K. str.	...	2	⊙. 1 iceberg.	
13	·954	30·0	28·6	77	·139	ssw	3-4	10	K. str.	...	1-2	⊙	
14	·952	30·1	28·8	79	·134	sw	3	10	K. str.	...	2-3		
15	·931	29·8	29·0	86	·143	sw	4-5	10	Str.	...	3		
16	·932	29·9	29·2	88	·147	sw	4-5	10	Str.	...	3	Waves, 3 W.S.W. Swell, 2 W.S.W.	
17	·926	29·0	29·0	100	·160	sw	3	7	K. nim.	...	2	*	
18	·926	29·5	29·0	92	·150	ssw	2-4	6	K. nim.	...	2	*. 1 iceberg.	
19	·929	30·4	29·8	91	·154	sw	2	9	K.	Cir. K.	1		
20	·927	30·3	28·7	76	·129	sw	2	9	K.	Cir. K.	1-2	1 iceberg.	
21	·920	30·3	28·8	77	·131	ssw	2	9	K.	...	1-2		
22	·923	29·1	28·3	87	·138	sw	4	8	Str.	...	2		
23	·914	29·0	28·0	82	·130	ssw	3-4	8	K. str.	...	2-3	Passing shower of * during hour.	
Mdt.	·913	28·9	28·0	86	·132	ssw	2-3	10	K.	...	2	" " * " "	
Means.	28·944	29·6	28·6	82·4	·135	...	3·4	9·1	..	...	2·2		
FEBRUARY 24.													At noon, lat. 62° 49' S. long. 38° 12' W.
1	28·902	29·6	28·3	80	·129	ssw	2-3	7	Str.	...	2		
2	·874	30·0	28·0	69	·116	ssw	2	8	K. str.	...	1-2		
3	·894	30·0	28·2	72	·120	ssw	2-3	10	K. str.	...	2		
4	·851	29·9	28·0	70	·117	sw	3	8	K. & K. str.	...	2	6 icebergs.	
5	·856	29·8	28·2	75	·123	sw	3-4	8	K.	...	3		
6	·855	29·5	28·1	78	·125	sw	3-4	8	K.	Cir str.	3	2 icebergs.	
7	·846	29·8	28·6	80	·134	sw	2-3	8	K.	...	2-3	⊙	
8	·843	30·2	28·2	70	·118	sw	2-3	7	K.	Cir str.	1	⊙. No ice.	
9	·839	29·0	28·3	88	·139	ssw	2-3	10	K.	Cir str.	1-2	⊙	
10	·831	29·5	28·3	81	·131	wsww	3	10	K.	...	1-2	⊙. Sounding.	
11	·826	29·2	28·0	79	·127	wsww	2-3	10	K. str.	...	1-2	⊙	
12	·812	29·1	27·3	71	·112	sw	2-3	10	K. str.	...	1-2	"	
13	·807	29·6	28·5	82	·135	sw	2	4	K.	Cir str.	1-2		
14	·798	29·4	28·2	80	·130	sw	2-3	7	K.	...	2	⊙	
15	·803	28·9	28·5	93	·148	sw	2	10	Nim.	...	1-2	* ⊙	
16	·802	29·8	29·0	86	·144	sw	(2)	6	K.	...	1-2	* ⊙	
17	·812	30·2	29·8	94	·157	sw	2-3	5	K.	...	1-2	⊙	
18	·821	30·0	29·6	93	·155	sw	2	2	K.	...	1	4 icebergs.	
19	·821	29·9	29·3	90	·151	sw	2	8	K.	Cir. K.	1		
20	·826	29·9	29·6	95	·158	sw	2-3	9	K. & str.	Cir. K.	1-2	6 icebergs.	
21	·841	29·3	28·2	82	·131	sw	2-3	3	K. str.	Cir. K.	0-1		
22	·840	29·9	28·5	77	·130	sw	3	8	K.	...	1-2	* ⁰ during hour.	
23	·834	29·9	28·4	76	·127	sw	2-3	9	K.	...	1-2		
Mdt.	·846	29·5	28·0	76	·123	sw	3	10	Str.	...	1		
Means.	28·837	29·7	28·5	80·7	·133	...	2·5	7·7	...	...	1·6		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
FEBRUARY 25, 1904.													At noon, lat. 64° 29' S. long. 35° 29' W.
1	28.843	29.8	28.2	75	.123	SW	3-4	10	Nim.	...	1-2	*	
2	.840	28.0	27.7	93	.143	SW	3-4	3	K.	...	1-2	q during hour.	
3	.843	29.0	28.0	82	.130	SW	3-4	8	K. str.	...	1-2	q and * during hour.	
4	.841	28.6	28.3	95	.148	SW	2	8	K. str. & nim.	...	1-2		
5	.846	29.4	28.2	80	.130	SW	2-3	9	K. & K. str.	...	1-2	q.	
6	.856	29.3	28.0	78	.126	SW	2-3	9	K. str.	...	1-2	* during hour. Several icebergs, some	
7	.870	29.0	28.4	89	.142	SW	3	9	K. str. & nim.	...	1-2	* ² during hour. [flat-topped.	
8	.886	29.0	28.2	86	.136	SW	3-4	9	K. & K. str.	...	1-2		
9	.904	29.0	28.2	86	.136	SW	3-4	10	K. & nim.	...	1-2	*. Sunshine during hour, 15 min.	
10	.894	29.5	28.9	90	.147	SW	3-4	9	K. & K. str.	...	2		
11	.903	29.5	29.0	92	.150	SW	3	8	K.	...	2		
12	.909	29.8	29.2	90	.149	SW	2-3	7	K.	...	1-2		
13	.920	29.1	28.0	81	.129	SW	1-2	8	K. & K. str.	...	0-1	☉. * shower about 12.30.	
14	.933	29.0	28.0	82	.130	SW	2-3	10	Str.	...	1-2	* ⁰	
15	.945	29.6	28.6	83	.137	SW	1-2	10	Str.	...	1-2	▲	
16	.944	29.6	27.5	68	.111	SW	2-3	10	K. str. & K.	...	1-2		
17	.964	30.5	28.9	76	.132	SW	1-2	8	K.	...	1-2	☉. 8 icebergs. Sounding.	
18	.957	29.8	28.2	75	.123	SW	2	9	K.	...	1-2	☉. Clear on N.W. horizon.	
19	.961	29.5	26.5	56	.092	SW	2-3	9	K. & K. str.	...	1-2	Clear on horizon W. to N.E.	
20	.982	29.5	28.0	76	.123	SW	3	10	K. str.	...	1-2		
21	.978	29.3	28.1	80	.129	SW	2	10	K. str.	...	2		
22	.985	29.5	28.6	85	.139	SW	2	10	K. str.	...	1		
23	.985	29.3	28.3	84	.134	SW	2	10	Nim.	...	1	* ⁰	
Mdt.	.980	29.8	28.3	77	.126	SE	0-1	10	Nim.	...	1	*	
Means.	28.915	29.4	28.2	81.6	.132	...	2.5	8.9	...	...	1.5		

FEBRUARY 26.													At noon, lat. 65° 59' S. long. 33° 06' W.
1	28.989	28.8	27.9	84	.132	Calm	0	10	K.	...	0	S.W. swell slight.	
2	.996	28.5	27.8	87	.136	Calm	0	10	K. str.	...	0	" "	
3	.999	28.8	27.8	82	.129	Calm	0	10	K. str.	...	0	" "	
4	29.006	28.8	27.7	81	.127	Calm	0	10	K. str.	...	0	[bergs.	
5	.009	30.4	28.9	78	.133	Calm	0	10	Str.	...	0	☉. Sun rose about 4.45 a.m. 2 ice-	
6	.028	28.8	27.6	79	.124	SE	0	10	Str.	...	0	2 icebergs. Sighted narrow stream pack	
7	.026	28.7	27.6	81	.126	SE	0-1	9	K. str.	...	0	ice, 6.43. 2 icebergs. [ahead.	
8	.027	28.6	27.7	84	.131	SE	1-2	10	K. str.	...	0	Passing through stream pack ice, more	
9	.032	28.2	27.3	83	.127	SE	2	9	K.	...	0	☉. Detached pack.	
10	.042	29.0	28.0	82	.130	SE	2	4	K.	Cir & Cir str.	0	☉. Pack ahead 4 miles.	
11	.048	30.9	30.3	92	.153	SE	0-1	8	K.	...	0	☉. Streams of pack on all sides.	
12	.051	28.8	28.1	87	.138	SSE	1-2	8	K.	...	0	☉. Sounding.	
13	.041	28.7	28.5	96	.153	SE	0-1	8	K.	...	0	☉. " "	
14	.049	28.0	27.5	89	.137	SE	2	10	K. str.	...	0	☉. Air very clear.	
15	.056	29.2	28.7	92	.147	SSE	1	10	Str.	...	0	☉ during hour.	
16	.066	28.0	28.0	100	.153	S	1-2	10	Str.	...	0	Air very clear.	
17	.066	27.6	25.7	65	.097	S	0	9	K.	Cir. K.	0	☉ faintly. Air very clear.	
18	.099	28.8	26.8	66	.105	S	0-1	8	Str.	Cir. K.	0	☉ brightly. " "	
19	.105	27.5	26.4	79	.116	SSE	1-2	4	...	Cir. K.	0-1	☉. Lose streams of pack.	
20	.108	27.1	26.2	81	.118	SSE	0-4	4	...	Cir & Cir. K.	0	" "	
21	.124	27.0	26.3	85	.123	S	0-1	7	...	Cir. K.	0	" " [shining.	
22	.139	26.9	25.9	79	.115	S	0-1	0	...	...	0-1	" " Moon and stars	
23	.137	27.0	25.9	77	.112	SSE	1-2	0	...	...	0-1	Clear of pack. " "	
Mdt.	.154	27.0	25.9	77	.112	SSE	1-2	0	...	...	0	In loose pack. Slight S.W. swell. Moon	
Means.	29.058	28.4	27.4	82.7	.128	...	0.9	7.4	...	...	0.1	[and stars shining.	

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
FEBRUARY 27, 1904.												
At noon, lat. 66° 26' S. long. 31° 25' W.												
1	29.173	27.0	26.3	85	.123	s	2	6	K.	...	0	Amongst pack.
2	.187	27.1	26.1	80	.115	s	2	10	Str.	...	0	Lying to in pack. [Swell.
3	.210	27.0	25.9	77	.112	s	2-3	7	K.	...	0-1	" " Surrounded by pack.
4	.230	26.9	26.0	81	.117	sw	0-1	9	K.	...	0	In hole of water among loose pack. No
5	.265	26.6	25.7	81	.117	ssw	0-1	9	...	Cir. K.	0	Steaming through loose pack ice. [bergs.
6	.279	26.7	25.5	75	.109	se	0-1	9	...	Cir. K.	0	
7	.288	26.4	25.5	81	.115	Calm	0	9	...	Cir. K.	0	☉. Steaming through loose pack ice.
8	.302	26.7	25.4	73	.105	s	0	9	K. str.	...	0	Steaming through loose pack ice.
9	.314	27.3	26.1	77	.112	s	0-1	10	K. str.	...	0	
10	.324	(27.8)	(26.2)	(70)	(.106)	(s)	(0-1)	(10)	K. str.)	...	0	☉ faintly. (Interpolated.)
11	.330	28.3	26.2	64	.098	Calm	0	9	K. str.	...	0	☉. Pack ice.
12	.342	28.4	26.6	68	.106	Calm	0	10	K. str.	...	0	Pack ice.
13	.360	29.4	27.6	71	.115	N	0-1	10	...	Cir. K.	0	☉. Clouds of Alto-Cumulus type.
14	.357	29.7	28.2	76	.125	Var.	0	9	...	Cir. K.	0	☉.
15	.352	28.9	26.1	56	.089	N, var.	0	10	K. str.	...	0	Clouds very high. " "
16	.355	28.2	26.1	64	.098	NW, var.	0-1	10	K.	...	0	Patches of blue.
17	.348	28.2	26.1	64	.098	N	0-1	3	K.	Cir. K.	0	Clouds of Alto-K. type.
18	.347	28.0	27.1	82	.125	N	0-1	9	K.	...	0	" " "
19	.345	28.9	26.6	62	.099	NE	0-1	10	K.	...	0	" " "
20	.346	28.0	25.9	62	.095	NE	0-1	8	K.	...	0	Moon shining.
21	.333	27.6	26.0	70	.104	NE	0-1	0	...	...	0	Moon and stars shining.
22	.311	28.3	26.8	72	.113	ENE	0-1	0	...	...	0	Amongst loose pack ice.
23	.296	28.6	26.8	69	.108	E	0-1	0	...	...	0	" " "
Mdt.	.289	28.5	27.2	77	.119	NE	0-1	0	...	...	0	" " "
Means.	29.303	27.9	26.3	72.4	.109	...	0.6	7.3	...	...	0.0	
FEBRUARY 28.												
At noon, lat. 66° 21' S. long. 28° 30' W.												
1	29.266	27.5	25.7	66	.099	NE	0-1	0	...	...	0	Among loose pack ice.
2	.259	27.8	25.9	65	.098	NE	0-1	0	...	...	0	" " "
3	.238	27.7	26.4	75	.113	E	0-1	5	K.	...	0	" " "
4	.232	27.0	25.9	77	.112	ESE	0-1	9	K. str.	...	0-1	Steaming through very loose pack.
5	.215	27.2	25.8	72	.106	ESE	0-1	8	...	Cir. K.	0-1	" " "
6	.210	27.1	25.9	76	.110	E	0	9	...	Cir. K.	0	" " "
7	.194	27.4	26.0	73	.107	ESE	0-1	9	...	Cir. K.	0	" " " No bergs.
8	.187	27.3	26.6	86	.127	s	0-1	10	K. str.	...	0	Loose pack and bay ice.
9	.179	28.0	27.3	86	.131	s	1	10	K. str.	...	0	Very scattered pack.
10	.174	27.8	27.2	88	.133	SE	1-2	8	K.	...	0	☉. Very scattered pack. Swell from N.
11	.181	30.0	28.0	69	.116	SE	1-2	4	K.	Cir str.	0	☉. " " "
12	.164	29.9	28.0	70	.117	SE	2	9	K. str.	Cir str.	0	
13	.157	29.4	27.6	71	.115	ESE	2	10	K.	...	0	Air very clear most of day.
14	.159	29.0	27.1	69	.108	SE	1	10	K. str.	...	1	
15	.153	29.3	27.7	74	.119	SE	2	10	K.	...	0	
16	.159	28.2	26.7	73	.112	ESE	1	10	K. str.	...	0	
17	.170	28.8	26.8	66	.105	SSE	1	10	Str K.	...	0	
18	.188	29.2	27.7	76	.120	SE	2	10	Str.	...	1	☉. Clouds very high.
19	.179	29.0	27.2	70	.110	NE	2	9	K.	Cir. K.	0	[between detached portion.
20	.187	29.2	27.5	73	.116	SE	2	10	K. str.	Cir str.	1	Thin detached K. str showing thin Cir str.
21	.210	29.3	28.0	78	.126	SE	1-2	10	K. str.	...	0-1	Moon gleaming.
22	.207	29.3	27.8	75	.121	SE	2	10	K. str.	...	0-1	
23	.216	28.5	27.3	79	.122	SE	0-1	10	K. str.	...	0-1	
Mdt.	.219	28.2	26.9	76	.117	SSE	0-1	9	K.	...	0-1	
Means.	29.196	28.4	27.0	74.3	.115	...	1.1	8.3	...	...	0.2	

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Am't.	Lower Spec.	Upper Spec.		
FEBRUARY 29, 1904.												At noon, lat. 68° 08' S. long. 27° 10' W.
1	29.226	28.6	27.1	74	.115	sse	1-2	10	K. str.	...	0-1	1 iceberg peaked, astern. " " " [astern. * ² during hour. 1 iceberg peaked, * ⁰ . No ice. No ice. 2 large and a few small bergs. 2 large bergs in sight. [few small bergs. Pack on horizon, S.S.W. 2 large and a Lower clouds moving S. ☉ ☉ brightly. Patches of blue. Swell from N.E. Air very clear since 13 hours. Swell 2 from N.E. " " Moon shining. " " Stream ice. "
2	229	28.8	27.6	79	.124	sse	0-1	10	K. str.	...	0-1	
3	230	27.6	26.8	84	.126	sse	2	8	K.	...	0-1	
4	244	27.6	26.6	80	.120	se	1	9	Str.	Cir. K.	0-1	
5	248	27.9	26.5	74	.112	se	1	10	K. str.	...	0-1	
6	257	26.9	26.1	83	.120	sse	1	10	Nb.&Str.	...	0-1	
7	271	25.9	25.7	96	.134	sse	2	10	Str.	...	1	
8	281	26.2	25.9	94	.133	sse	2	10	Str.&Nb.	...	1	
9	285	26.9	26.0	81	.117	se	2-3	10	K. str.	...	1	
10	294	27.2	26.0	76	.111	se	2-3	10	K. str.	...	1	
11	317	27.8	26.4	73	.111	se	2	10	Str.	...	1	
12	306	28.8	27.5	78	.122	sse	1-2	10	K. str.	...	0	
13	310	29.9	29.2	88	.147	Calm	0	10	K.	Cir str.	0	
14	321	29.0	28.8	96	.154	s	0	10	K.	Cir str.	0	
15	321	29.0	26.0	54	.086	Calm	0	9	...	Cir. K.	0	
16	327	29.0	26.2	56	.090	ssw	0	10	K.	Cir str.	0	
17	334	28.0	25.9	62	.095	s	0	10	K.	...	0	
18	355	29.2	27.5	78	.116	Calm	0	8	K.	Cir. K.	0-1	
19	375	26.3	25.1	74	.105	s	0-1	1	...	Cir. K.	0	
20	361	26.1	25.0	75	.105	s	0-1	8	Str.	Cir str.	0	
21	374	25.9	25.0	78	.110	sse	0-1	8	Str.	...	0	
22	391	26.9	26.0	81	.117	sse	0-1	7	Str.	K. str.	0	
23	379	26.6	25.8	83	.119	Calm	0	4	...	Cir.	0	
Mdt.	394	28.0	26.9	78	.120	Calm	0	8	K.	Cir. K.	0	
Means.	29.310	27.7	26.4	77.9	.117	...	0.9	8.7	...	...	0.4	
MARCH 1.												At noon, lat. 68° 43' S. long. 24° 15' W.
1	29.388	26.0	25.2	80	.113	Calm	0	10	Str.	...	0	Stream ice. Among loose pack. Much bay ice. " " [E. to S. " " Sky clear at horizon * " " [pack. 7 bergs. Air very clear. Steaming through loose ☉. Air very clear. Steaming through loose pack. 7 bergs. ☉. Air very clear. Steaming through loose pack. 7 bergs. ☉. Steaming through loose pack. Swell [N.E. x N. ☉. Air very clear. ☉<

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
MARCH 2, 1904.												
At noon, lat. 71° 4' S. long. 23° 10' W.												
1	28.895	29.3	29.3	100	.162	NNW	6	10	Nim.	...	4	* /
2	.857	30.0	30.0	100	.167	NNW	5	10	Str.	...	4	*
3	.844	30.1	30.0	99	.165	NW	4-5	10	Nim.	...	3-4	*. No ice in sight.
4	.812	30.3	30.3	100	.169	WNW	4	10	Nim.	...	3-4	*. " " " " Thick disagreeable weather, with soft flaky snow.
5	.797	30.5	30.4	99	.168	NW	4-5	10	Str.	...	3-4	* during hour. One small berg visible on starboard side. [on starboard side.
6	.790	30.6	30.2	94	.160	WNW	4-5	10	Str.	...	3-4	* during hour. One small berg visible
7	.782	30.2	30.0	97	.163	WNW	4-5	10	Nim.	...	3-4	*. No ice. Sky breaking to E.
8	.783	28.9	28.0	84	.132	WNW	5	10	K. str.	...	1-2	
9	.784	28.5	27.9	90	.139	W	4-5	10	Str.	...	2-3	
10	.776	27.3	27.0	94	.139	W	4-5	10	Str.	...	3-4	
11	.758	28.6	27.7	84	.131	W	5-6	10	Str.	...	3-4	/
12	.725	29.6	28.3	80	.129	W	5-6	10	Str.	...	3-4	q /
13	.709	28.9	28.0	84	.132	W	6-8	10	Str.	...	5	q / Only 1 berg in sight. /
14	.662	28.1	27.3	85	.129	W	6-8	10	Str.	...	6	q /
15	.652	27.0	26.8	95	.140	W	6-7	10	Str.	...	5-6	q /
16	.672	27.2	26.9	94	.139	W	6-8	10	Str.	...	5-6	q /
17	.691	28.0	27.8	95	.146	W	6-7	10	Str.	...	5-6	q /
18	.720	28.4	28.0	93	.144	WSW	7	10	K. str.	...	5	Only 1 berg in sight. /
19	.743	27.9	27.2	86	.130	WSW	7	10	K. str.	...	5	/
20	.788	27.8	26.4	73	.111	SW	6-8	10	K. str.	...	5	q * /
21	.847	26.5	25.9	88	.123	SSW	6-8	10	K. str.	...	4	q * /
22	.914	26.3	24.9	70	.099	SSW	6-7	10	Str.	...	3-4	
23	.925	25.2	24.9	92	.126	SSW	6-7	7	K.	...	3-4	Moon shining. /
Mdt.	.964	25.8	24.9	79	.109	SW	5	10	K. str.	...	3-4	
Means.	28.787	28.4	27.8	89.8	.140	...	5.8	9.9	...	...	4.0	

MARCH 3.											At noon, lat. 72° 18' S. long. 17° 59' 15" W.	
1	28.975	25.2	24.8	90	.122	SW	5	10	K. str.	...	4	☉
2	.970	25.3	24.7	85	.116	SW	5	10	Str.	...	3-4	2 bergs to the W.
3	.994	26.2	25.9	94	.133	SSW	5	9	K. str.	...	3-4	Moon shining. Several bergs.
4	.995	26.0	25.8	95	.134	WSW	4	1	K.	...	4	Sunrise at 4.10 a.m. [ice.
5	.986	26.0	25.9	98	.138	WSW	3-4	2	K.	...	3-4	☉. Only 1 flat topped berg. No other
6	.997	25.6	23.5	56	.077	SW	3	1	K.	...	2-3	☉. " " " " "
7	.996	25.7	23.8	59	.081	SW	2	4	Cir.	...	2-3	☉. " " " " "
8	.998	26.0	25.3	83	.117	SW	1-2	3	K.	Cir.	1-2	☉. " " " " "
9	.993	25.0	24.9	97	.131	SW	0-1	5	...	Cir.	1-2	☉. Thin, foggy cirrus.
10	.989	25.6	24.0	64	.089	ESE	0-1	7	...	Cir.	0	☉. " " " " "
11	.978	24.5	22.9	62	.081	NE	0-1	8	...	Cir & Cir str.	0	☉. Large halo round the sun.
12	.937	25.2	24.0	71	.096	NE	1-2	8	...	Cir str.	0-1	☉. Sounding.
13	.910	26.2	24.7	67	.096	N	1-2	10	...	Cir str.	0	☉.
14	.876	26.5	25.1	70	.101	NE	2	10	Str. K.	...	0	☉.
15	.826	27.1	26.0	78	.112	NE	2-3	10	K. str.	...	0	☉. Among pack ice.
16	.785	27.4	26.7	86	.128	W	3-4	10	Str.	...	1	☉.
17	.705	27.0	26.7	93	.137	N	4-5	10	Nim.	...	0	*
18	.669	27.5	27.2	94	.140	NNE	4-5	10	Nim.	...	1-2	*
19	.633	28.0	27.8	95	.146	NNE	5-6	10	Nim.	...	4	*
20	.508	29.0	28.5	91	.145	NNE	5-6	10	Nim.	...	4-5	*
21	.486	30.2	30.0	97	.163	NNE	4	10	Nim.	...	4	*
22	.479	30.3	30.2	99	.166	N	4	10	Nim.	...	4	*
23	.445	30.0	30.0	100	.167	N	4	10	Nim.	...	3-4	*
Mdt.	.422	30.0	30.0	100	.167	N	4-5	10	Nim.	...	4	*
Means.	28.815	26.9	26.2	84.3	.124	...	3.2	7.8	...	...	2.2	

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
MARCH 4, 1904.												
At noon, lat. 72° 22' S. long. 18° 13' W.												
1	28.405	30.0	30.0	100	.167	NNW	4-5	10	Nim.	...	4	*
2	.351	30.1	30.0	99	.165	NNW	4-5	10	Nim.	...	4-5	*
3	.349	30.3	30.0	96	.161	NW	4	10	Nim.	...	4	*
4	.306	29.8	29.8	100	.166	NNE	5	10	Nim.	...	4	* ²
5	.292	29.6	29.5	98	.162	N	5-6	10	Nim.	...	4-5	* ²
6	.264	29.8	29.4	94	.155	N	4-5	10	Str.	...	3-4	1 berg on port. * during hour.
7	.260	29.8	29.6	97	.160	N	4-5	10	Nim.	...	3-4	*
8	.242	30.0	29.8	97	.161	NNE	5	10	Nim.	...	4	*
9	.247	29.8	29.7	98	.163	NE	3-4	10	Nim.	...	3-4	*
10	.237	29.8	29.7	98	.163	N	4-5	10	Nim.	...	3-4	*
11	.243	29.8	29.7	98	.163	N	4-5	10	Nim.	...	3-4	*
12	.258	28.2	28.2	100	.154	NW	3-4	10	Nim.	...	3-4	*
13	.276	27.0	26.5	89	.130	NW	2-3	10	Str.	...	2	Sky breaking to N.W.
14	.283	27.3	26.4	82	.120	NW	2-3	10	Str.	...	2	
15	.283	27.2	26.7	89	.133	WNW	2	10	Str.	...	2	
16	.286	26.9	26.4	90	.130	WNW	2-3	10	Str.	...	1-2	
17	.287	26.9	26.6	94	.137	NNW	2-3	10	Nim.	...	2-3	* ⁰
18	.298	26.6	26.3	94	.135	WNW	2-3	10	K. str.	...	1-2	
19	.274	26.6	25.9	85	.122	NNW	3	10	K. str.	...	2-3	
20	.289	26.7	25.9	83	.120	NW	3-5	10	Nim.	...	4	* ⁰ q.
21	.299	27.0	26.4	87	.126	NNW	3-4	10	K. str.	...	3-4	
22	.326	27.2	26.9	94	.139	NW	4-5	10	Nim.	...	3-4	*. Ship lying for night.
23	.348	28.1	27.8	93	.144	NW	4	10	Nim.	...	3	*.
Mdt.	.370	28.4	29.7	91	.141	NW	3-4	10	K. str.	...	3	* during hour. Ship lying for night.
Means.	28.295	28.5	28.1	93.6	.146	...	3.8	10	...	...	2.4	
MARCH 5.												
At noon, lat. 72° 31' S. long. 19° 00' W.												
1	28.409	28.2	27.9	95	.146	NW	3-4	10	Nim.	...	3	*
2	.450	28.2	27.5	86	.133	NNW	3-4	10	Nim.	...	3	*. Steaming to get clear of pack to S.E.
3	.479	28.2	27.6	88	.136	N	3	10	Nim.	...	2-3	*
4	.514	26.9	26.3	87	.127	NW	3-4	10	Nim.	...	1	*. Lying.
5	.536	26.7	26.1	87	.126	NW	2-3	10	Nim.	...	1	* ⁰ . 1 berg.
6	.566	26.7	26.2	90	.128	NNW	2-3	10	Str.	...	1	Pack edge lying to W.S.W. ½ mile away.
7	.585	26.9	26.3	87	.127	NNW	3-4	10	Nim.	...	1	*
8	.620	27.0	26.2	83	.120	WNW	2-3	10	Nim.	...	1	* ⁰
9	.658	26.9	26.0	81	.117	N	2-3	10	Str.	...	1-2	* ⁰ during hour.
10	.685	26.5	25.6	80	.115	NW	2-3	10	Str.	...	1-2	
11	.716	26.8	25.9	81	.117	NW	3-4	10	Str.&Nb.	...	2-3	*
12	.743	26.1	25.3	81	.115	NW	3	10	Str.&Nb.	...	1-2	* ⁰
13	.767	25.9	25.0	78	.110	NW	2	10	Nim.	...	1	* ⁰ during hour.
14	.787	25.4	24.4	76	.104	NW	2-3	10	Str.	...	1	* ⁰
15	.809	25.2	24.5	83	.112	NNW	2	10	Str.	...	1	
16	.823	25.0	24.0	74	.100	NNW	1-2	10	Str.	...	0	
17	.852	25.0	24.0	74	.100	NNW	2	10	Str.	...	0-1	
18	.885	22.7	22.5	94	.115	NNW	2	10	K. str.	...	0-1	
19	.896	23.8	22.5	67	.085	WNW	1-2	10	K. str.	...	1	Slight swell W.N.W.
20	.905	23.0	21.4	59	.072	W	2	10	K. str.	...	1	
21	.942	22.7	21.3	64	.077	NW	1	10	K. str.	...	0	Lying to.
22	.964	22.0	21.7	91	.106	NNE	1-2	10	Str.	...	1	Lying for night.
23	.971	22.1	21.8	91	.107	N	2	10	Str.	...	1	" "
Mdt.	.982	23.6	22.0	61	.076	N	1-2	10	Str.	...	1	" "
Means.	28.731	25.5	24.6	80.8	.111	...	2.4	10	...	...	1.2	

VOYAGE OF THE SCOTIA, 1902-1904.

67

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
MARCH 6, 1904.												
At noon, lat. 73° 30' S. long. 21° 28' W.												
1	28.995	23.8	22.5	67	.085	NNE	2	10	Str.	...	1	Lying for night.
2	29.009	23.7	23.2	86	.110	N	1-3	10	Nim.	...	1	*. Lying for night.
3	.016	24.6	24.0	84	.112	N	1	10	K. & Nim.	...	1	* during hour. Lying for night.
4	.012	24.9	22.8	54	.071	sw	1	10	Str.	...	0-1	[* to N.E.]
5	.030	24.1	22.8	67	.086	Calm	0	10	Str. & Nb.	...	0	Clear to S.W. 2 miles, with shower of
6	.037	24.2	22.7	64	.081	wsW	0	10	Str. & Nb.	...	0	*. Clear to W., 2 miles to E. Steaming along stream of heavy pack ice.
7	.041	24.4	22.7	61	.078	wsW	0-1	10	K. str.	...	0-1	
8	.052	24.0	22.6	65	.082	wsW	0-1	10	K.	...	1	" ["*° during hour. " 20 bergs.
9	.048	24.0	23.7	91	.118	sw	1-2	8	...	Cir. K.	...	
10	.054	24.2	22.2	54	.070	w	1-2	9	K.	...	1	
11	.054	24.4	22.5	57	.074	sw	1	10	K. str.	...	0-1	
12	.046	24.8	23.2	63	.083	sw	0-1	10	K. str.	...	0	Steaming along ice barrier.
13	(.037)	24.0	23.0	73	.094	E	0	10	K. str.	...	0	
14	.027	23.0	22.2	77	.094	E	0	10	K. str.	...	0	
15	.023	22.4	21.9	86	.102	SE	0	10	K. str.	...	0	Patches of blue.
16	.010	24.1	22.9	69	.089	E	0	9	K.	...	0	
17	28.992	23.2	22.6	83	.103	NE	0-1	10	Str. K.	...	0	Air very clear in afternoon.
18	.971	23.8	22.5	67	.085	ESE	2-3	9	K. str.	...	0	Among pack ice.
19	.957	22.9	22.0	75	.091	NE	2	7	...	Cir. K, cir st.	0	
20	.922	21.5	21.2	91	.105	SSE	3	4	K. & K. str.	...	1	Pack to S. 1/4 mile.
21	.912	21.0	21.0	100	.113	SE	2-3	3	...	Cir. K.	0-1	
22	.899	21.9	21.5	88	.104	E	2-3	10	Str.	...	0	
23	.872	22.9	22.6	92	.112	SE	3-4	10	Str.	...	0	
Mdt.	.839	22.8	22.2	83	.101	ESE	3-4	10	Nim.	...	0	*°. Moon gleaming.
Means.	28.994	23.5	22.5	74.9	.093	...	1.3	9.1	...	...	0.4	
MARCH 7.												
At noon, lat. 74° 01' S. long. 22° 0' W.												
1	28.810	23.2	22.9	92	.113	ESE	3-4	10	Str. & Nb.	...	0	*°. Moon gleaming faintly.
2	.773	23.8	23.4	89	.113	ESE	4-5	10	Nim.	...	0	
3	.748	23.1	22.9	94	.116	E	4-5	10	Str.	...	0	
4	.701	21.7	21.3	88	.103	ESE	5	10	Nim.	...	0	
5	.667	22.5	22.4	97	.117	ENE	5	10	Nim.	...	0	
6	.626	23.9	23.6	92	.118	E	6	10	Nim.	...	0	*. Bay ice forming.
7	.599	24.6	24.3	92	.122	E	6	10	Nim.	...	0	* ² . Dry powdery snow.
8	.590	23.8	23.3	100	.128	ENE	7	10	Nim.	...	0	* ² . Jammed in bay and slush ice.
9	.585	23.4	23.2	95	.118	ENE	5-7	10	Mist	...	0	* ² . Jammed in bay and slush ice. Steaming through tight pack but making no way.
10	.572	23.5	23.3	95	.119	ENE	5-7	10	Nim.	...	0	* ² . Getting tighter in pack.
11	.564	23.9	23.5	89	.114	E	4-7	10	Nim.	...	0	* ² . Beset in the pack.
12	.559	23.9	23.5	89	.114	ENE	7	10	Nim.	...	0	* ² . " " Drift clouds.
13	.513	24.1	23.9	95	.122	ESE	6-8	10	Nim.	...	0	* ² . " " " "
14	.544	23.7	23.4	92	.116	ENE	7-8	10	D. cloud*	...	0	* ² . " " " "
15	.540	22.4	22.4	100	.120	ENE	7-9	10	Mist	...	0	* ² . " " " "
16	.525	21.6	21.5	97	.113	ENE	6-8	10	D. cloud	...	0	* ² . " " " "
17	.541	21.9	22.0	100	.118	ENE	6-8	10	D. cloud	...	0	* ² . " " " "
18	.543	21.2	21.2	100	.114	ENE	5-8	10	Nim.	...	0	* ² . " " " "
19	.550	20.9	21.0	100	.113	E	5-8	10	Nim.	...	0	* ² . " " " "
20	.565	20.7	20.7	100	.112	ENE	5-8	10	Nim.	...	0	* ² . Still jammed tight.
21	.577	20.4	20.3	97	.107	ENE	4-8	10	Nim.	...	0	* ² . " " " "
22	.595	21.0	20.9	97	.109	ENE	4-8	10	Nim.	...	0	* ² . " " " "
23	.594	22.0	21.4	82	.095	E	4-7	10	Nim.	...	0	* ² . " " " "
Mdt.	.587	21.9	21.7	94	.106	E	4-7	10	Nim.	...	0	* ² . " " " "
Means.	28.603	22.6	22.4	94.4	.114	...	6.0	10	...	...	0.0	

* Drift cloud, probably snow off barrier.

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True,		Cloud.		Amount of Sea, 0-8.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
MARCH 8, 1904.												
At noon, lat. 74° 01' S. long. 22° 00' W.												
1	28.567	22.2	22.1	97	.116	ENE	4-7	10	Nim.?	...	0	q ² f ² .
2	.559	23.2	22.8	89	.110	ENE	4-5	10	Nim.?	...	0	f ² q.
3	.552	23.2	22.1	71	.087	ENE	4-7	10	Nim.?	...	0	f ² q.
4	.527	21.9	21.7	94	.111	E	5-7	10	Nim.?	...	0	q f ² Still jammed very tight.
5	.526	21.8	21.6	94	.110	E	7	10	Nim.?	...	0	f ² .
6	.530	22.3	22.0	92	.109	E	5-6	10	Fog	...	0	f ⁰ . Dark horizon N.W. to N.E.
7	.515	22.1	22.0	97	.114	ESE	6-7	10	Nim.?	...	0	f. Considerable lull during hour.
8	.549	21.9	21.8	97	.114	NE	7	10	Nim.	...	0	* q.
9	.544	21.7	21.8	100	.117	NE	5-7	10	Nim.	...	0	* f ² .
10	.539	21.6	21.7	100	.116	ENE	4-6	10	Nim.	...	0	* f ² q.
11	.535	21.7	21.8	100	.117	ENE	4-6	10	Nim.	...	0	* f ² q.
12	.522	21.2	21.3	100	.114	E	4-7	10	Nim.	...	0	* f ² q.
13	.524	21.0	21.1	100	.113	ENE	5-7	10	Nim.	...	0	* f ² q.
14	.523	21.4	21.4	100	.115	ENE	5-8	10	Nim.	...	0	* f ² q. Still jammed.
15	.521	21.6	21.6	100	.116	ENE	3-5	10	Nim.	...	0	* f ² q.
16	.516	21.7	21.6	97	.113	ENE	3-7	10	Nim.	...	0	* q.
17	.519	21.8	21.3	86	.100	ENE	5-7	10	Str.	...	0	f ² q ⁰ .
18	.531	22.1	21.6	86	.100	ENE	4-7	10	Nim.	...	0	* f ² .
19	.519	21.9	21.4	86	.100	ENE	4-7	10	Nim.	...	0	* q f ² .
20	.531	21.9	21.5	88	.104	ENE	4-8	10	Mist	...	0	f ² q.
21	.538	22.2	22.0	94	.112	ENE	4-8	10	Mist	...	0	f ² q.
22	.565	22.8	22.1	80	.098	ENE	4-6	10	Str.	...	0	f ² q.
23	.573	22.8	22.2	83	.101	ENE	5-7	10	Str.	...	0	f ² q.
Mdt.	.595	22.9	22.0	75	.091	E	5-8	10	Str.	...	0	q.
Means.	28.538	22.0	21.8	91.9	.108	...	5.7	10	...	...	0.0	
MARCH 9.												
At noon, lat. 74° 01' S. long. 22° 00' W.												
1	28.597	22.9	22.0	75	.091	E	4-6	10	Str.	...	0	f ² q.
2	.616	22.9	22.3	83	.102	E	4-7	10	Str.	...	0	q.
3	.622	22.9	22.4	86	.105	E	5-8	10	Str.	...	0	q ² .
4	.651	23.6	22.4	69	.087	E	6	10	Str.	...	0	f ² .
5	.659	22.9	22.4	86	.105	E	6	10	Str.	...	0	Water sky N.E. to N.W.
6	.672	22.9	22.4	86	.105	E	6-7	10	Str.	...	0	f ² .
7	.692	23.1	22.8	92	.112	E	5-6	10	Str.	...	0	f ² .
8	.713	23.1	22.8	92	.112	E	4-6	10	K. str.	...	0	f ² .
9	.727	23.2	23.0	95	.117	E	4-5	10	Nim.	...	0	* ⁰ .
10	.750	23.1	23.0	97	.120	E	3-4	10	Nim.	...	0	* ⁰ q.
11	.759	22.7	22.4	92	.111	NE	4-5	10	Nim.	...	0	* ⁰ .
12	.764	22.9	22.6	92	.112	ENE	4-5	10	Nim.	...	0	* ⁰ .
13	.766	22.1	22.0	97	.115	ENE	4-5	10	Nim.	...	0	* ⁰ .
14	.781	22.2	22.0	94	.112	ENE	3-4	10	Nim.	...	0	* ⁰ . Ship lying beset.
15	.797	22.1	22.0	100	.119	ENE	4-5	10	Nim.	...	0	* ⁰ .
16	.809	22.1	21.9	94	.111	ENE	3-5	10	Str.	...	0	f ⁰ q ⁰ .
17	.829	22.2	21.9	92	.108	ENE	4-6	10	Nim.	...	0	f ⁰ q ⁰ .
18	.842	22.1	22.0	97	.115	E	4-5	10	Nim.	...	0	f ² .
19	.863	22.1	22.0	97	.115	E	3-4	10	Str.	...	0	Strong water sky N.W. by N. to E.S.E.
20	.858	22.2	22.0	94	.112	E	3-5	10	Str.	...	0	f ² .
21	.867	22.1	22.0	97	.115	E	3-4	10	Str.	...	0	f ² .
22	.890	22.0	22.0	100	.118	E	1-4	10	Str.	...	0	q ⁰ . Stars gleaming.
23	.901	21.9	21.2	80	.093	E	3-4	10	Str.	...	0	* ⁰ .
Mdt.	.911	21.9	21.5	88	.104	E	3-4	10	Str.&Nb.	...	0	* ⁰ .
Means.	28.764	22.6	22.2	90.6	.109	...	4.6	10	...	...	...	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-10.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
MARCH 10, 1904.												At noon, lat. 74° 01' S. long. 22° 00' W.
1	28.923	21.9	21.3	83	.097	E	3-4	10	Str nim.	...	0	*°
2	.938	21.4	20.9	86	.097	E	3-4	10	Str.	...	0	
3	.956	21.0	20.6	87	.097	E	3-4	10	Str.	...	0	
4	.971	21.4	21.1	91	.105	ENE	5	10	Str.	...	0	
5	.988	21.3	21.0	91	.104	E	5	7	...	Cir str.	0	
6	.999	21.6	21.1	86	.099	E	5	8	...	Cir. & Cir str.	0	Banks of K. str. all round and refraction.
7	29.044	21.4	21.0	88	.101	SE	0-1	9	...	Cir str.	0	
8	.051	22.9	22.3	83	.102	ENE	1-2	10	Str.	...	0	
9	.081	22.9	22.3	83	.102	ESE	0-1	10	K. str.	...	0	∞ to S. and W.
10	.089	23.1	22.8	92	.112	E	0-1	10	Str.	...	0	∞ on starboard side to S. and W.
11	.104	23.7	23.0	81	.103	E	0-2	10	Str.	...	0	☉ trying to gleam. ∞ on starboard
12	.124	23.4	22.8	84	.104	ENE	0-1	10	Str.	Cir.	0	☉ [side to S. and W.]
13	.139	22.9	22.0	75	.091	ENE	0-1	4	Str.	Cir.	0	☉
14	.161	23.8	22.7	72	.090	ENE	0-1	5	...	Cir str.	0	☉. Air very clear.
15	.178	21.9	21.5	88	.104	NE	0-1	9	...	Cir str.	0	☉
16	.192	22.2	21.8	89	.104	NE	0-1	10	Cum str.	...	0	
17	.204	22.1	21.7	88	.103	ENE	0-1	10	Str.	...	0	Clouds very high.
18	.216	21.2	20.9	91	.103	E	0-1	9	...	Cr. K. & Cr. str.	0	
19	.239	20.9	20.3	82	.092	Calm	0	7	Cum str.	...	0	
20	.260	18.9	18.5	87	.089	E	0	10	...	Cir. K.	0	
21	.280	18.1	18.0	97	.095	SE	0	5	...	Cir. K.	0	
22	.306	14.1	14.0	97	.080	E. air	0	2	...	Cir str.	0	
23	.328	9.9	9.8	97	.065	s. air	0	0	...	...	0	Clouds on N.W. horizon.
Mdt.	.353	8.8	8.8	100	.064	Calm	0	0	...	...	0	
Means.	29.130	20.4	20.0	87.4	.096	...	1.4	7.7	...	...	0.0	
MARCH 11.												At noon, lat. 74° 01' S. long. 22° 00' W.
1	29.354	7.3	7.2	95	.058	Calm	0	0	...	...	0	
2	.367	5.8	5.7	95	.054	s. airs	0	0	...	...	0	
3	.388	5.0	4.3	93	.052	s	0	1	...	Cir str.	0	
4	.405	5.0	4.8	93	.052	Calm	0	0	...	...	0	
5	.427	3.2	3.0	94	.047	Calm	0	0	...	...	0	[horizon.
6	.443	4.3	4.1	93	.049	Calm	0	0	...	...	0	☉. Banks of Cir and Cir str. all round
7	.461	5.9	5.3	79	.045	Calm	0	2	...	Cir.	0	☉
8	.485	6.5	6.4	95	.056	s. airs	0-1	9	K. str.	...	0	
9	.504	9.0	8.8	92	.060	s	0	10	Str.	...	0	Clouds very high.
10	.522	11.3	10.9	86	.062	s	0	9	K.	...	0	Clouds of Alto cum. type.
11	.537	14.0	13.6	85	.069	ssw	0	8	Alto K.	...	0	☉
12	.558	16.8	16.3	84	.077	ssw	0-1	4	...	Cir.	0	☉
13	.571	19.0	18.7	90	.092	Calm	0	4	...	Cir.	0	☉. Air very clear since 4 hours.
14	.592	17.2	17.1	97	.091	ssw	0-1	3	...	Cir str.	0	☉. Ship beset. Upper clouds from
15	.608	18.0	18.1	100	.098	ssw	0	2	...	Cir. K.	0	☉ [W.S.W.]
16	.623	16.4	15.9	84	.077	Calm	0	4	...	Cir.	0	☉
17	.641	13.8	13.4	86	.070	ssw	0	1	...	Cir.	0	☉
18	.661	13.2	12.7	83	.065	s. airs	0	0	...	...	0	☉
19	.676	7.2	7.1	95	.058	Calm	0	8	...	Cir.	0	☉
20	.678	7.0	6.9	95	.057	s	0-1	1	...	Cir str.	0	
21	.675	6.2	5.9	89	.051	s	0	0	...	...	0	Bank of Cumulus from N.W. to E.
22	.687	5.2	4.9	89	.049	sw	0-1	7	K.	...	0	
23	.700	5.0	4.7	89	.048	sw	0-1	0	...	...	0	
Mdt.	.705	4.2	3.9	89	.047	sw	0-1	0	...	...	0	
Means.	29.553	9.4	9.1	90.4	.062	...	0.1	3.0	...	...	0.0	

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Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amnt.	Lower Spec.		
MARCH 14, 1904.											
At noon, lat. 73° 11' S. long, 23° 53' W.											
1	29.263	11.1	10.6	82	.058	Calm	0	0	...	0	Fog crystals on therm. inside screens.
2	.255	13.2	12.7	82	.065	NE	0	10	Str.	0	Clouds high.
3	.236	15.3	14.6	77	.066	N	0-1	10	Str.	0	
4	.216	17.5	17.0	84	.080	N	0	10	Nim.	0	*. Steaming since 3.30 in fairly tight pack.
5	.202	18.3	17.9	87	.086	N	0	10	Nim.	0	* " " "
6	.188	18.7	18.4	90	.092	Calm	0	10	Nim.	0	* " " "
7	.175	19.7	19.3	88	.094	NW	0-1	10	Nim.	0	* " " "
8	.150	20.7	20.3	88	.098	NE	0-1	10	K. str.	0	* between hours.
9	.135	22.0	21.7	91	.106	NE	1	10	K. str.	0	*. Steaming through pancake ice.
10	.120	23.3	23.1	95	.118	NE	0-1	10	Mist	0	* " " "
11	.101	24.9	24.8	98	.131	NE	3-4	10	Nim.	0-1	* " " "
12	.083	24.9	24.7	95	.127	NNW	0-1	10	Nim.	0	* " " "
13	.072	24.8	24.6	95	.127	N	0-1	10	Nim.	0	* " " " [ing.
14	.044	24.5	24.4	98	.128	WNW	1-2	10	Nim.	0	*. Surrounded by bay ice; lying; sound-
15	.041	23.9	23.6	92	.118	NW	2-3	10	Nim.	0	* " " " "
16	.027	24.0	23.6	88	.114	NW	2-3	10	Nim.&K.	0-1	* " " " "
17	.029	23.5	23.2	92	.115	NW	1	10	Nim.	0	*. Started steaming at 16.30.
18	.010	23.5	23.3	95	.119	NW	2-3	10	Nim.	0	* " " "
19	.018	23.0	23.0	100	.123	NW	2-3	10	Nim.	0	*. Steaming through bay ice.
20	.015	22.3	22.0	92	.109	NNW	1-2	10	K. str.	0-1	* in hour. Pancake ice.
21	.008	22.2	22.0	94	.112	NNW	2	10	Str.	0-1	Pancake ice.
22	.009	23.1	22.9	94	.116	NW	1-2	10	K. str.	0	
23	.010	22.1	22.0	97	.115	NW	1	10	K.&Nim.	0	* " "
Mdt.	28.999	22.4	22.1	92	.110	NW	2	10	K. str.	0	
Means.	29.100	21.2	20.9	91.1	.105	...	1.2	9.6	...	0.1	
MARCH 15.											
At noon, lat. 71° 50' S. long. 23° 40' W.											
1	29.014	22.8	22.3	86	.105	WNW	2-3	10	Nim.	0	* ²
2	.012	23.2	23.0	95	.117	WNW	3-4	10	K. str.	0	* during hour.
3	.019	23.3	23.2	97	.121	WNW	4	10	Nim.	0	* " "
4	.030	22.1	22.0	97	.115	WNW	2-3	10	Str.	2	No ice of any kind in sight.
5	.024	22.0	22.1	100	.118	WNW	3-4	10	Str.	2-3	3 bergs.
6	.045	19.9	18.8	69	.071	W	3-4	10	Str.	3	3 bergs in distance.
7	.078	18.9	18.0	71	.073	WNW	3-4	10	K. str.	3	4 bergs. No sea ice seen.
8	.070	18.3	17.2	67	.065	W	2-3	10	K. str.	2-3	1 berg visible.
9	.086	17.4	16.1	62	.059	WNW	3	10	K. str.	2-3	
10	.093	17.8	16.5	61	.059	WSW	1-2	10	K. str.	1-2	3 bergs. Steaming dead slow for sound- [ing.
11	.100	16.0	15.1	70	.063	W	0-1	10	K. str.	1	Finished sounding=2102 fathoms.
12	.091	15.9	15.1	74	.065	WNW	3	10	Str.	1	
13	.107	15.4	14.6	74	.064	NW	2-3	10	K. str.	2-3	
14	.094	15.3	14.7	80	.069	WNW	2-3	10	K. str.	2-3	
15	.103	15.8	14.9	70	.063	WNW	3-4	10	K. str.	2-3	
16	.103	16.8	16.0	74	.068	WNW	3	10	Str.&Nb.	2-3	* ⁰
17	.093	16.8	16.0	72	.067	WNW	3	10	Str.	2	
18	.081	16.9	16.1	74	.068	WNW	3	10	Str.	2	
19	.098	17.0	16.1	71	.066	NW	2-3	10	K. & K. Str.	2	
20	.105	17.0	16.7	90	.084	NW	2-3	10	K.	2	
21	.114	17.1	16.8	90	.084	NW	2	10	K. str.	1-2	
22	.126	16.2	15.7	83	.075	WNW	2	8	Str. K.	1	Moon gleaming faintly.
23	.132	16.2	15.7	83	.075	NW	2-3	10	Str.	1	
Mdt.	.144	16.2	15.8	86	.078	NW	2-3	10	Str.	1	
Means.	29.082	18.1	17.4	79.0	.079	...	2.7	9.9	...	1.7	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.		
MARCH 16, 1904.											
At noon, lat. 71° 28' S. long. 22° 32' W.											
1	29.159	16.4	15.9	84	.077	NW	2	10	Str.	...	1
2	.155	16.7	16.2	84	.077	NW	2	10	Str.	...	1
3	.160	17.2	17.0	94	.088	WNW	2	10	Str.	...	1
4	.181	16.7	16.4	90	.084	NW	1	9	K. str.	...	0-1
5	.181	16.9	16.2	78	.072	NW	0-1	8	K.	...	0-1
6	.194	17.3	17.0	90	.086	NW	0-1	6	K.	...	0-1
7	.196	17.9	17.4	84	.082	Calm	0	4	K.	...	0
8	.198	20.4	19.8	82	.089	NW	0-1	1	K.	...	0-1
9	.196	19.4	19.0	87	.091	N	0-1	5	K.	...	0
10	.209	20.4	20.2	94	.103	Calm	0	9	K. str.	...	0-1
11	.212	21.2	20.3	74	.083	NW	0-1	8	K.	...	0
12	.222	21.9	21.1	77	.090	NW	1	9	K.	...	0
13	.215	22.9	22.2	80	.098	N	1-2	10	K. str.	...	0-1
14	.210	23.9	23.2	81	.104	NW	0	10	K. str.	...	0
15	.213	24.2	23.8	89	.116	Calm	0	10	Str.	...	0
16	.208	24.1	24.0	97	.126	Calm	0	10	Str.	...	0
17	.208	25.6	25.4	95	.131	Calm	0	10	Str.	Cir str.	0
18	.197	25.0	25.0	100	.135	ENE	0-1	10	K. str.	...	0
19	.223	25.9	26.0	100	.140	NE	0-1	10	K. str.	...	0-1
20	.220	25.1	25.0	98	.132	ENE	1-2	10	K. str.	...	0-1
21	.207	25.1	25.0	98	.132	ENE	1	10	Str.	...	0-1
22	.204	25.6	25.5	98	.135	ENE	0-1	10	Str.	...	0-1
23	.225	25.8	25.8	100	.140	ENE	0-1	10	Str.	...	0-1
Mdt.	.213	25.9	25.0	78	.110	ENE	0-1	10	Str.	...	0-1
Means.	29.200	21.7	21.3	88.8	.105	...	0.7	8.7	...	...	0.4
MARCH 17.											
At noon, lat. 71° 22' S. long. 18° 15' W.											
1	29.204	25.9	25.2	84	.116	ENE	0-1	10	Str.	...	0-1
2	.204	26.1	25.7	91	.129	NE	0-1	10	Str.	...	0-1
3	.190	26.6	25.9	85	.122	NE	0	10	Str.	...	0
4	.202	26.9	26.3	87	.127	Calm	0	10	K. str.	...	0
5	.198	27.3	27.0	94	.139	Calm	0	10	K. str.	...	0
9	.194	27.8	27.3	90	.137	W	0	10	Str.	...	0-1
7	.201	28.2	28.0	96	.148	W	1	9	K. str.	...	0-1
8	.198	29.8	29.6	97	.160	W	1-2	10	K. str.	...	0-1
9	.185	28.2	28.0	96	.148	W	2-3	9	K. scud.	Cir str.	1-2
10	.183	28.6	28.5	98	.155	W	2-3	1	...	Cir. K.	1-2
11	.186	28.8	28.9	100	.159	WNW	2-3	4	K.	Cir.	1-2
12	.180	28.5	28.4	98	.154	NW	2-3	9	K. str.	Cir str.	1-2
13	.186	28.6	28.4	96	.152	NW	3	10	K. str.	...	1-2
14	.206	28.8	28.5	95	.150	NW	3	10	Str.	...	1-2
15	.187	28.8	28.5	95	.150	WNW	2	10	Str.	...	2
16	.182	29.0	29.0	100	.160	WNW	2	10	Str.	...	2
17	.199	28.5	28.4	98	.153	W	2	10	Str.	...	2
18	.202	28.4	28.3	98	.151	WNW	2-3	8	K. & scud.	Cir str.	2-3
19	.194	28.2	28.0	96	.148	WNW	2-3	10	Str.	...	2-3
20	.188	28.3	27.8	90	.140	WNW	3-4	10	K. str.	...	2-3
21	.186	27.8	27.4	92	.139	WNW	3-4	10	Nim.	...	2-3
22	.162	27.9	27.6	94	.144	NW	3-4	10	Nim.	...	2-3
23	.163	27.4	27.2	85	.142	NW	3-4	5	Nim.	...	2-3
Mdt.	.155	27.1	27.0	98	.145	NW	3-4	5	Nim.	...	2-3
Means.	29.189	28.0	27.7	93.9	.144	...	2.0	8.8	...	...	1.5

VOYAGE OF THE SCOTIA, 1902-1904.

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Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.			Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Ant.	Lower Spec.	Upper Spec.			
MARCH 18, 1904.													At noon, lat. 71° 22' S. long. 16° 34' W.
1	29.142	27.9	27.6	94	.144	NW	3	5	Nim.	...	2-3	*°. Thin haze over stars.	
2	.132	28.0	27.6	91	.140	NW	2-3	1	Nim	...	2-3	*°. Bank of cloud all round horizon.	
3	.121	28.2	27.9	95	.146	WNW	3-4	5	K.	...	2-3	Cloud Alto cum type except to E.	
4	.107	28.2	27.9	95	.146	NNW	1	9	K. str.	...	0-1	No ice at all.	
5	.085	28.2	27.9	95	.146	NNW	1	6	Str.	Cir K.	1	" "	
6	.075	28.1	27.5	88	.135	NNW	1	10	K. str.	...	1	Sunrise 6.2.	
7	.047	28.2	27.9	95	.146	NNW	0-1	9	K. str.	Cir.	0-1	*°. No ice.	
8	.037	28.5	28.3	96	.151	NW	2	10	K. str.	...	1-2	" "	
9	.026	28.0	27.8	95	.146	NNE	2-3	10	Nim.	...	1-2	*	
10	.011	28.3	28.0	95	.146	NNE	2-3	10	Nim.	...	1-2	*	
11	28.992	28.8	28.2	89	.141	N	2-3	10	K. str.	...	1-2	*°. Trawl down.	
12	.988	29.0	28.4	89	.142	N	1-2	10	K. str.	...	1-2	Trawl down.	
13	.972	29.0	28.5	91	.145	N	1	9	K. str.	...	0-1	☉	
14	.956	29.0	28.5	91	.145	N	2-3	10	K. str.	...	1	Observation taken 14 minutes too soon.	
15	.938	29.1	28.8	94	.152	N	1	10	Str.	...	1	" "	
16	.907	29.0	28.5	91	.145	NNE	1	10	Str.	...	1	" "	
17	.901	29.0	28.7	95	.151	ENE	0-1	10	K. str.	...	0	" "	
18	.883	28.7	28.3	93	.146	NE	1	10	Str.	...	0-1	" "	
19	.870	28.8	28.7	98	.156	NNE	1	10	K. str.	...	0	" "	
20	.851	28.5	28.5	100	.157	NNW	1-2	10	Str.	...	1	" "	
21	.843	28.2	28.0	96	.148	NNE	2-3	10	K. str.	...	1	*	
22	.809	27.8	27.6	96	.146	NNE	2	10	Nim.	...	1	*°	
23	.806	27.8	27.7	98	.149	NNE	2-3	10	Str.	...	1	▲° during hour.	
Mdt.	.789	28.1	28.0	98	.151	NNE	3	10	Str.	...	1	" "	
Means.	28.970	28.4	28.1	94.1	.147	...	1.8	8.9	...	...	1.1	" "	
MARCH 19.													At noon, lat. 71° 32' S. long. 17° 15' W.
1	28.780	27.9	27.8	98	.150	NNE	3	10	Nim.	...	1	*° during hour.	
2	.778	28.1	27.8	93	.144	NE	3-4	10	Nim.	...	1	*	
3	.767	27.3	27.2	98	.146	E	0	10	Nim.	...	1	*	
4	.770	27.8	27.0	84	.127	NE	0-1	10	K. str.	...	0	" "	
5	.760	27.8	27.2	88	.133	ENE	0-1	10	Str.	...	0-1	" "	
6	.764	27.5	27.4	98	.147	NNE	0-1	10	Str.	...	0	*° during hour.	
7	.766	27.2	27.2	100	.148	ENE	0-1	9	K. str.	...	0-1	" "	
8	.765	27.2	27.0	96	.142	ENE	1-2	10	Str.	...	1-2	" "	
9	.770	26.6	26.4	96	.138	E	2-3	10	K. str.	...	1-2	Pack to E. and S.E.	
10	.780	24.7	24.5	95	.126	E	3	10	K. & Nim.	...	1-2	*°. Stream ice. [down.	
11	.785	23.2	23.0	95	.117	E	3	10	K. str.	...	1-2	*° during hour. Stream ice. Trawl	
12	.807	22.2	22.1	97	.116	E	3	10	K. str.	...	1	Loose pack. Trawl down.	
13	.837	22.9	23.0	100	.123	ENE	2-3	10	Str.	...	1	" "	
14	.837	22.0	21.9	97	.114	NE	2-3	10	Str.	...	1	" "	
15	.845	21.1	21.0	97	.110	NE	2	10	Str.	...	2	" "	
16	.839	22.0	21.9	97	.114	NE	3	10	K. str.	...	1	" "	
17	.841	22.0	21.8	94	.110	NE	3	10	K. str.	...	1-2	" "	
18	.873	21.9	21.7	94	.111	ENE	3-4	10	K. str.	...	3	" "	
19	.893	22.0	21.0	71	.083	ENE	3-4	10	K. str.	...	3-4	" "	
20	.897	22.6	22.1	86	.104	E	3-4	10	K. str.	...	2-3	" "	
21	.914	23.0	22.7	91	.112	E	3-4	10	K. str.	...	3	" "	
22	.919	23.0	22.7	91	.112	ENE	3-4	10	Str.	...	3	" "	
23	.933	22.3	21.9	89	.105	ENE	3-4	10	Str.	...	3	" "	
Mdt.	.957	21.5	21.2	91	.105	E	3-4	10	Str.	...	3	" "	
Means.	28.828	24.3	24.1	93.2	.122	...	2.5	9.9	...	...	1.6	" "	

VOL. II.

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Hour.	Bar. at 32 and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
MARCH 20, 1904.													At noon, lat. 71° 17' S. long. 18° 50' W.
1	28.972	21.0	20.8	93	105	ENE	3-4	10	Str.	...	3		
2	.989	21.0	20.9	97	109	NE	3-4	10	Str.	...	3		
3	.991	21.5	21.2	91	105	NE	3	10	Str.	...	3		
4	29.002	22.5	22.3	94	114	ENE	2-3	10	Str.	...	2		
5	.002	23.4	23.1	92	115	NE	2	10	Str.	...	1		
6	.010	24.5	24.2	92	121	E	2	10	Str.	...	1		
7	.028	24.9	24.7	95	127	E	2	10	K. str.	...	1		
8	.047	26.6	26.2	92	131	NE	1-2	10	K. str.	...	1	No ice seen this watch from deck, but at 6 a.m. a patch of pack ice seen from masthead to E.	
9	.035	27.0	26.8	95	140	NE	2-3	10	K. str.	...	1		
10	.039	27.6	27.1	90	135	NE	1-2	10	K. & Nim.	...	1		
11	.045	27.1	27.0	98	145	NE	2	10	Nim.	...	1	▲ ²	
12	.050	26.3	26.1	96	137	NE	2-3	10	Nim.	...	2	*	
13	.129	26.9	26.4	90	130	NNE	1-2	10	K. str.	...	2-3	∞. *° during hour.	
14	.103	27.0	26.4	87	126	NNE	1-2	10	Str. & Nb.	...	2-3	*°∞	
15	.098	27.0	26.6	91	133	NNE	2-3	9	K. str.	...	2-3	⊙. *° during hour.	
16	.092	27.0	26.4	87	126	NNE	2-3	9	K. str.	...	1-2		
17	.106	26.4	25.9	90	128	NE	1-2	9	K. str.	...	1-2		
18	.083	26.0	25.4	85	120	NE	1-2	10	Str. K.	...	2		
19	.086	25.8	25.2	86	119	NE	1-2	9	K.	...	1-2		
20	.078	26.0	25.4	85	120	NE	1	10	Str. K.	...	1		
21	.109	26.0	25.4	85	120	NE	0-1	3	Nim.	...	0-1	*	
22	.079	26.3	25.5	81	116	NE	0-1	10	K. str.	...	0-1	Few stars gleaming.	
23	.068	26.2	25.4	80	115	N	0-1	10	K. str.	...	1		
Mdt.	.075	26.5	25.2	72	103	Calm	0	10	K. str.	...	0-1	Few stars gleaming.	
Means.	29.055	25.4	25.0	89.3	122	...	1.8	9.5	...	...	1.7		
MARCH 21.													At noon, lat. 69° 33' S. long. 15° 19' W.
1	29.071	25.7	25.3	91	126	N	0-1	4	K.	...	0-1	Swell. Stars shining.	
2	.063	25.5	25.4	98	134	N	0-1	10	K. str.	...	0-1	"	
3	.061	25.9	25.8	98	137	N	0-1	10	K. str.	...	0	"	
4	.051	26.4	26.0	92	130	N	0	10	K. str.	...	0		
5	.040	26.0	26.0	100	141	Calm	0	10	K. str.	...	0		
6	.046	26.2	26.2	100	142	N	0-1	9	K. str.	...	0	⊙	
7	.039	27.2	27.2	100	148	W	1	10	Nim.	...	0-1	*. Sounding.	
8	.037	27.0	27.0	100	147	W	1	10	Nim.	...	0-1	*	
9	.031	26.8	25.9	81	117	NW	1	10	Nim.	...	0-1	*. Swell.	
10	.040	26.0	26.0	100	141	NW	0-1	9	K. & Nim.	...	0-1	*	
11	.024	27.4	27.4	100	149	NW	1-2	9	K.	Cir str.	0-1	⊙. Trawling. * during hour.	
12	.041	29.2	29.0	97	156	Calm	0	8	K. str.	...	0-1	⊙	
13	.055	29.0	29.0	100	160	E	0	7	K. & Nim.	Cir str.	0-1	*°⊙	
14	.058	28.6	27.5	79	124	E	0	6	K.	Cir str.	1-2		
15	.063	28.1	26.9	77	118	E	1-2	1	...	Cir K.	1-2	⊙ [Cum. on N. and N.W. horizon.	
16	.071	28.0	26.8	76	117	ESE	1-2	0	...	...	1-2	⊙. Cir str. low down to S. and S.W.	
17	.080	27.6	26.5	79	118	SE	1	1	...	Cir str.	1	⊙. Air very clear in afternoon.	
18	.087	27.5	26.4	79	116	SE	1	2	...	Cir str.	1	⊙	
19	.106	27.0	25.9	77	112	NE	0-1	0	...	...	0	Sun set at 18.10. Bank of Cumulus to S.W.	
20	.124	27.0	25.9	77	112	N	0-1	0	...	...	0	Bank of Cumulus to S.W.	
21	.132	26.7	25.5	75	109	E	0	0	...	...	0	" " "	
22	.154	26.5	25.3	74	107	E	0-1	0	...	...	0-1	Swell.	
23	.170	26.4	24.9	68	097	E	0-1	0	...	...	0	" Stars shining brightly.	
Mdt.	.178	27.0	24.9	70	104	NNE	0-1	0	...	...	0	" " "	
Means.	29.076	27.0	26.4	87.0	128	...	0.6	5.2	...	...	0.5		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
MARCH 22, 1904.												
												At noon, lat. 68° 32' S. long. 10° 52' W.
1	29.186	26.0	24.8	72	.101	NE	0-1	0	...	...	0	Swell.
2	.201	26.0	24.8	72	.101	NE	0	0	...	...	0	"
3	.217	26.0	24.7	70	.099	Calm	0	0	...	...	0	"
4	.226	26.3	25.1	74	.105	Calm	0	0	...	...	0	"
5	.249	26.1	25.0	74	.105	s	0-1	0	...	...	0	No ice at all. Air very clear.
6	.262	27.2	25.4	66	.096	s	0-1	3	...	Cir. K.	0-1	1 berg. " "
7	.285	28.0	26.9	78	.120	s	0-1	9	K. str.	...	0	Air very clear.
8	.301	28.1	25.8	60	.091	Variable	0	9	K. str.	...	0-1	" "
9	.304	27.9	25.5	58	.088	NW	0-1	9	K. & str. K.	...	0-1	" "
10	.330	28.0	26.0	64	.097	NW	0-1	9	K. str.	...	0-1	" "
11	.352	28.6	26.3	62	.097	NW	0	7	Nim. & K.	...	0-1	☉. Snow shower ahead of ship.
12	.361	30.0	29.2	87	.145	Calm	0	4	K.	...	0	☉. Swell. Air very clear.
13	.386	32.2	29.1	65	.119	Calm	0	1	...	Cir str.	0	☉. " K. on N. horizon, str. on
14	.402	31.5	28.5	64	.113	Calm	0	5	K.	...	0	[S. horizon.
15	.423	30.5	27.5	60	.102	s	0-1	5	K.	...	0	very clear.
16	.444	29.0	26.7	63	.100	s	1	10	K.	...	0-1	☉. Clouds of Alto cumulus type. Air
17	.468	29.0	26.6	61	.098	SW	0-1	8	...	Cir. Alto. K.	0-1	☉.
18	.463	29.7	27.1	62	.101	s	1-2	10	...	Cir str.	1	Clear sunset. Air very clear.
19	.481	29.8	26.9	59	.097	SW	1-2	10	Str.	...	1	Clouds very high. " "
20	.502	29.7	27.2	63	.103	WSW	2	10	Str.	...	1	" "
21	.506	29.8	27.8	69	.115	WSW	2	10	Str.	...	1	" "
22	.526	29.8	27.0	60	.098	SW	2	4	K.	...	0-1	Swell.
23	.551	29.6	27.2	64	.104	SW	2	0	...	...	0-1	" slight.
Mdt.	.560	29.2	27.0	65	.104	WSW	2	0	...	...	0-1	"
Means.	29.374	28.7	26.6	66.3	.104	...	0.8	5.1	...	...	0.4	
MARCH 23.												
												At noon, lat. 68° 32' S. long. 12° 49' W.
1	29.569	29.1	27.1	68	.107	WSW	2	0	...	...	0-1	Slight swell.
2	.585	29.2	27.2	68	.108	WSW	2	0	...	...	0-1	"
3	.585	29.7	27.0	61	.099	WSW	2	0	...	...	0-1	Swell.
4	.584	29.5	27.2	65	.105	SW	2-3	0	...	...	2	Banks of K. and K. str. around horizon.
5	.596	29.2	27.1	67	.106	SW	3	0	...	...	2	" " " 1 berg.
6	.609	29.8	28.0	72	.119	WSW	2	2	K.	...	1	Air very clear. Banks of K. and K. str. around horizon. 2 bergs. Waiting for sounding over Rosse's Deep
7	.615	29.8	27.2	62	.102	SW	2	1	K.	...	1	Air very clear. ☉. Heavy bank of
8	.615	30.0	28.0	69	.116	SW	2	3	Str.	Cir str.	1-2	☉. [Nim. K. between N.W. & N.
9	.616	30.0	28.0	69	.116	w	2-3	7	...	Cir. K.	2	☉.
10	.624	29.9	28.1	72	.119	WSW	2-3	8	...	Cir. K.	1-2	☉.
11	.621	30.0	28.3	74	.123	w	2-3	10	K. str.	...	2	"
12	.600	30.0	29.1	85	.143	w	2-3	10	K. str.	...	2	"
13	.631	30.8	29.5	81	.140	w	2-3	10	K. str.	...	1-2	"
14	.612	30.0	29.6	93	.135	w	2	10	K. str.	...	1-2	"
15	.612	30.8	29.8	86	.147	w	3	10	Str.	Cir str.	2	"
16	.637	30.0	29.6	93	.155	w	3-4	10	Str.	...	3-4	"
17	.633	30.0	28.8	80	.135	w	3-4	10	K.	...	3-4	"
18	.617	30.7	28.9	74	.129	w	2-3	10	Str.	...	2	Clouds high.
19	.620	30.0	28.7	79	.133	w	3-4	10	Str.	...	2	"
20	.609	29.9	28.8	82	.137	w	3	7	K.	Cir.	2	"
21	.613	29.8	28.8	83	.139	w	3	9	Str.	...	2	"
22	.609	29.9	29.0	85	.142	w	2-3	10	K. str.	...	3-4	"
23	.590	30.0	29.4	90	.150	w	3	10	K. str.	...	3-4	"
Mdt.	.578	30.0	29.5	92	.153	w	3	10	K. str.	...	4	"
Means.	29.607	29.9	28.0	77.1	.128	...	2.6	6.5	...	...	2.0	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
MARCH 24, 1904.													At noon, lat. 68° 41' S. long. 12° 36' W.
1	29.568	30.0	29.7	95	158	W	3	10	K. str.	...	4	Stars shining bright. " "	
2	558	29.9	28.7	81	155	W	3	5	K.	...	4		
3	533	29.8	28.3	77	126	W	3	0	...	...	4		
4	517	29.6	28.6	83	137	NW	4	6	K.	...	3		
5	495	29.2	28.9	95	153	NW	3-4	10	Nim.	...	2-3		*
6	480	29.8	29.0	86	143	NW	3-4	10	Nim.	...	3		* ⁰
7	454	30.0	29.4	90	150	NW	3-4	10	Str.	...	3		* ⁰ during hour.
8	431	30.0	29.7	95	158	NW	3	10	Nim.	...	2		*
9	429	30.0	30.0	100	157	NW	2-3	10	Nim.	...	2		*
10	407	30.2	30.0	97	163	NW	2-3	10	Nim.	...	2		*
11	394	30.8	30.0	88	152	NW	2	10	Nim.	...	2	*	
12	361	30.5	30.0	92	157	NW	3	10	Nim.	...	2-3	*. Lying all last night.	
13	366	30.5	30.0	92	157	NNW	2	10	Nim.	...	2	*	
14	353	30.4	30.0	94	159	NNW	3-4	10	Nim.	...	2	*	
15	342	30.4	30.0	94	159	NNW	3-4	10	Nim.	...	3-4	*	
16	333	30.1	30.1	100	168	NNW	3-4	10	Nim.	...	3-4	*	
17	294	30.0	30.0	100	167	NNW	3-4	10	Nim.	...	3-4	*	
18	265	30.0	29.9	98	164	NW	3-4	10	Nim.	...	3-4	*	
19	231	30.2	30.0	97	163	NNW	4	10	Nim.	...	3-4	* ²	
20	211	30.0	29.9	98	164	NNW	4-5	10	Nim.	...	3-4	*. Clearing to windward.	
21	164	30.0	29.7	95	158	NNW	5	10	Nim.	...	4	*	
22	141	30.0	29.6	93	155	NNW	4-5	10	K. str.	...	4		
23	113	30.1	29.4	89	148	N	4-5	10	Nim.	...	4-5	* ⁰	
Mdt.	067	30.0	29.3	88	148	N	5	10	Nim.	...	5	* ⁰	
Means.	29.354	30.1	29.6	92.4	155	...	3.5	9.2	...	...	3.2		

MARCH 25.													At noon, lat. 68° 26' S. long. 11° 11' W.
1	29.034	30.0	29.3	88	148	N	5-6	10	Nim.	...	6	* ⁰ /	
2	008	30.0	29.6	93	155	N	5	10	Nim.	...	6	*	
3	28.955	29.9	29.6	95	158	N	5	10	Nim.	...	6	*	
4	925	29.9	29.4	92	153	N	6	10	Nim.	...	6	*	
5	876	30.0	29.6	93	155	N	6	10	Nim.	...	6	* /	
6	871	30.1	29.8	96	159	N	6	10	Nim.	...	6	* /	
7	855	30.3	30.0	96	161	N	4-5	10	Nim.	...	5	*. Stopped steaming after 7 a.m.	
8	844	30.2	30.0	97	163	N	4-5	10	Nim.	...	4	*	
9	843	30.4	30.0	94	159	N	3-4	10	Nim.	...	3-4	*	
10	831	30.7	30.1	91	157	N	2-3	10	Str.	...	3-4		
11	838	30.9	30.3	92	158	N	1-2	10	Str.	...	3		
12	842	31.0	30.6	93	163	N	1-2	10	Str.	...	2-3	Swell 2-3.	
13	843	31.0	30.9	98	171	N, var.	1	10	Str.	...	1-2	" 2-3.	
14	854	31.5	31.0	94	166	N	0-1	10	Str.	...	2	Swell 2-3. Started steaming 2 p.m. after stopping between 7 and 8. Ship only	
15	868	32.0	31.5	93	170	Var. airs	0-1	10	Str.	...	2	Swell 2-3. [drifting during that time.]	
16	905	31.9	31.4	94	169	Calm	0	10	Str.	...	1-2	Swell 2-3. Bar pumping heavily all day with heavy and confused swell causing [ship to labour.]	
17	919	32.0	31.6	94	172	Calm	0	10	Str.	...	1	Swell 2-3.	
18	893	31.1	31.1	100	175	N. light airs	0	10	Str.	...	3-4	" 2-3.	
19	914	31.0	31.0	100	174	N. airs	0	10	Nim.	...	3-4	*. Swell 2-3.	
20	913	31.0	31.0	100	174	NE airs	0	10	Str.	...	3-4	* in hour. Swell 2-3.	
21	910	31.1	31.0	99	172	Calm	0	10	Mist	...	4-5	~~~~ Swell 2-3.	
22	918	31.5	31.1	95	168	Calm	0	10	Mist	...	4-5	~~~~ " 2-3. Stars gleaming.	
23	899	30.0	30.0	100	167	N	0-1	6	K.	...	4-5	Stars gleaming.	
Mdt.	969	30.0	30.0	100	167	N	0	10	K. str.	...	4-5		
Means.	28.894	30.7	30.4	95.3	164	...	2.2	9.8	...	...	3.9		

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.		
MARCH 26, 1904.											
At noon, lat. 67° 36' S. long. 12° 05' W.											
1	28.880	30.0	30.0	100	.167	N	0-1	0	...	4	Stars shining brightly.
2	.854	30.0	30.0	100	.167	N	1	0	...	4	A slight ∞.
3	.819	30.0	30.0	100	.167	N	1-3	10	K. str.	4-5	
4	.769	30.1	30.1	100	.168	N	3	10	Mist	4	☁
5	.744	30.2	30.2	100	.168	NE	3-4	10	Nim.	3-4	☉
6	.706	30.3	30.2	98	.166	NE	3-4	10	Nim.	3	☉. 3 bergs.
7	.653	30.5	30.5	100	.171	NE	4	10	Nim.	3-4	☉
8	.614	31.0	30.8	96	.168	NE	4-5	10	Nim.	3-4	☉
9	.538	31.0	31.0	100	.174	NE	5	10	Nim.	4	☉
10	.506	31.2	31.1	99	.173	N	5	10	Nim.	4	☉
11	.452	31.3	31.2	99	.174	N	4-5	10	Nim.	4-5	☉
12	.435	31.1	31.1	100	.175	N	4-5	10	Nim.	3-4	☉
13	.381	31.1	31.0	99	.172	N	3-4	10	Nim.	3	☉. 1 berg in sight.
14	.357	31.0	31.0	100	.174	N	2-3	10	Nim.	2-3	☉
15	.300	30.6	30.6	100	.171	N	2-3	10	Nim.	2-3	☉
16	.274	30.7	30.8	100	.172	NW	2-3	10	Nim.	2-3	☉
17	.254	30.7	30.3	94	.162	NNW	2-3	10	Nim.	3	☉
18	.230	31.0	31.0	100	.174	NW	2	10	K. str.	2-3	☉. Attempted sounding.
19	.243	30.8	30.3	93	.160	NW	4	10	Nim.	3-4	☉
20	.249	30.8	30.6	97	.167	N	3	10	Nim.	3-4	☉
21	.246	30.7	30.3	94	.162	NW	2-3	10	Nim.	3-4	☉
22	.239	30.3	30.0	96	.161	NNW	3	10	K. str.	4	☉ in hour.
23	.238	30.8	30.2	91	.157	NNW	3	10	K. str.	4	☉ "
Mdt.	.238	30.9	30.3	92	.158	NNW	3-4	10	K. str.	4	
Means.	28.467	30.7	30.5	97.8	.168	...	3.1	9.2	...	3.5	
MARCH 27.											
At noon, lat. 66° 57' S. long. 11° 13' W.											
1	28.228	30.5	30.0	92	.157	N	3-4	10	K. str.	4	
2	.204	30.8	30.2	91	.157	N	2-4	10	Nim.	4	☉
3	.189	31.0	31.0	100	.174	N	3-4	10	K. str.	4	☉ in hour.
4	.175	30.6	30.6	100	.171	NE	4	10	Nim.	3-4	☉
5	.146	30.4	30.4	100	.170	NE	4	10	Nim.	3-4	☉
6	.146	30.2	30.2	100	.168	NNE	4	10	Nim. & Mist	3-4	☉ [growlers]
7	.142	30.3	30.2	98	.166	N	4	10	Str.	3-4	6 weathered bergs and some small
8	.163	30.2	30.0	97	.163	N	3	10	Str.	3-4	About to sound.
9	.167	31.0	30.5	92	.161	N	2-3	10	Nim.	3	☉
10	.168	30.0	30.0	100	.167	N	1-2	10	Nim.	2-3	☉. Sounding.
11	.161	30.2	30.1	98	.166	N	1-2	10	Nim.	2-3	☉.
12	.168	30.0	30.0	100	.167	N	2-3	10	Nim.	2-3	☉. 1 berg to starboard.
13	.156	30.3	30.3	100	.169	N	3	10	K. str.	4	☉ in hour.
14	.187	30.6	30.5	99	.169	NNW	1-2	10	Str. nim.	2-3	☉ on horizon.
15	.206	30.2	30.2	100	.168	NW	2-3	10	Str.	2-3	☉ ²
16	.225	30.5	30.1	94	.160	NW	2-3	10	Str.	2-3	☉ ² "
17	.281	30.0	29.7	95	.158	WNW	3-4	9	Str.	2-3	☉ ² "
18	.297	30.0	29.2	86	.145	W	3-4	10	Str.	2-3	☉ ² "
19	.335	30.2	29.7	92	.155	W	3-4	10	Str.	3	
20	.367	30.3	29.8	93	.156	W	3-4	10	Str.	3	
21	.401	29.5	28.9	90	.147	W	4	10	Str.	3	
22	.419	29.5	28.2	79	.128	WNW	3-4	10	Str.	3	
23	.451	28.8	27.7	81	.127	W	3-4	10	Nim.	3-4	☉
Mdt.	.473	28.5	27.2	77	.119	W	3	4	K. str.	3	☉ in hour.
Means.	28.244	30.2	29.8	93.9	.158	...	3.1	9.7	...	3.1	

Hour.	Bar at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-6.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
MARCH 28, 1904.													At noon, lat. 65° 58' S. long. 11° 24' W.
1	28.530	28.2	27.2	81	.124	WNW	2-3	3	K.	...	3		
2	.521	27.5	26.3	77	.114	W	2-3	10	K.	...	3	Stars gleaming overhead.	
3	.534	28.0	26.6	73	.112	WNW	3-4	10	K.	...	3-4		
4	.531	27.4	26.5	82	.122	NW	2-3	10	Nim.	...	3-4	* [close on port.	
5	.550	28.0	27.2	84	.128	NW	2-3	10	Str.	...	3-4	* during hour. Heavy swell. 1 berg	
6	.567	28.0	27.2	84	.128	NW	3	10	K. str.	...	3-4	Heavy swell. A few bergs.	
7	.594	28.3	27.0	76	.117	NW	3-4	8	K.	Cir.	4	" "	
8	.603	28.2	26.2	65	.100	NW	3	8	K.	...	4	" "	
9	.632	28.4	26.8	71	.111	NW	3-4	8	K. str.	...	4-5	⊙ Heavy swell.	
10	.645	28.2	26.6	71	.109	NW	3-4	10	K. str.	...	4	⊙ "	
11	.669	28.0	26.2	67	.102	NW	3-4	8	K.	...	4-5	⊙ " ▲ between hour.	
12	.674	28.0	26.8	76	.117	NW	3-4	8	K.	...	4-5	⊙ "	
13	.690	27.9	26.7	77	.117	W	4	9	K.	Cir.	4-5	⊙ "	
14	.714	28.0	27.0	80	.122	NW	3-4	7	K. str.	...	4-5	⊙ "	
15	.708	28.0	27.2	84	.128	NW	3-4	10	Nim.	...	4-5	*°. Heavy swell.	
16	.716	28.0	27.3	86	.131	WNW	3-4	10	K. str.	...	4-5	*° during hour.	
17	.733	27.9	27.3	89	.135	NW	4	10	Nim.	...	4-5	* "	
18	.730	28.0	27.8	95	.146	NW	2-3	10	K. str.	...	4-5	* in hour. Heavy swell.	
19	.742	28.3	28.0	95	.146	NW	3-4	10	Nim.	...	4-5	* "	
20	.751	28.4	28.0	93	.144	N	2-3	10	Nim.	...	4	* "	
21	.766	29.0	28.7	95	.151	W	2	10	Nim.	...	4-5	* "	
22	.795	30.0	29.5	92	.153	WNW	3-4	10	Nim.	...	2-3	*. Swell 5.	
23	.825	29.5	29.2	95	.155	W	5	10	K.	...	4-5	* in hour. Swell 5.	
Mdt.	.865	29.2	29.0	97	.156	W	4-5	10	K.	...	4	Swell 4-5.	
Means.	28.670	28.3	26.5	82.7	.128	...	3.3	9.0	...	...	4.0		
MARCH 29.													At noon, lat. 63° 54' S. long. 10° 42' W.
1	28.866	29.0	28.9	98	.157	W	5-6	10	K.	...	4-5	Swell 5. //	
2	.887	28.9	28.2	87	.139	W	5-6	10	K.	...	4	" //	
3	.911	28.8	28.2	89	.141	W	5-6	10	K.	...	4-5	" //	
4	.918	28.3	28.1	96	.149	W	6	10	Nim.	...	5-6	*. Swell 5. //	
5	.19	28.2	28.0	96	.148	W	5-6	10	Str.	...	6	*° in hour. //	
6	.939	28.2	28.0	96	.148	W	6-7	10	Str.	...	6	Just passed 1 berg, and another ahead. //	
7	.977	28.0	27.8	95	.146	W	7	10	Str.	...	6	//	
8	.970	28.1	27.1	81	.123	SW	5-6	10	Str.	...	6	//	
9	29.004	28.5	27.2	77	.119	NW	6	10	Str.	...	6	//	
10	.015	27.5	27.1	92	.138	W	6	10	Str.	...	6-7	//	
11	.020	29.0	28.5	91	.145	W	6	10	Str.	...	6	//	
12	.031	29.0	28.0	82	.130	W	7	10	Str.	...	6	//	
13	.052	29.0	28.1	84	.133	W	7	10	Str.	...	6	//	
14	.043	29.2	28.5	88	.142	W	7-8	10	Str. K.	...	6-7	//	
15	.073	29.1	28.3	87	.137	W	6-7	10	K.	...	6	● during hour. //	
16	.081	29.1	28.2	85	.134	W	6	10	K.	Cir.	5-6	//	
17	.113	28.8	28.0	86	.135	W	5-6	10	K. str.	...	5	//	
18	.145	28.3	27.5	85	.131	W	4-5	10	K. str.	...	5	//	
19	.182	26.8	26.9	100	.146	W	4-5	10	Str. K.	...	6	//	
20	.178	27.5	25.0	55	.083	W	5	10	K. str.	...	4-5	Moon gleaming.	
21	.192	28.0	25.8	61	.093	WSW	4	9	K. str.	...	4-5	" "	
22	.204	29.0	27.0	67	.106	WSW	4-5	9	K.	...	4-5	" "	
23	.208	29.2	27.8	77	.122	W	4-5	9	K. str.	...	4		
Mdt.	.209	29.0	28.0	82	.130	W	4-5	10	K. str.	...	4		
Means.	29.047	28.5	27.6	84.9	.132	...	5.7	9.9	...	...	5.3		

Hour.	Bar at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
MARCH 30, 1904.												
At noon, lat. 61° 25' S. long. 12° 47' W.												
1	29.207	28.5	28.0	91	141	w	4	10	K. str.	...	4	
2	235	28.5	27.9	90	139	w	4	10	K. str.	...	4	
3	238	28.9	28.1	86	136	w	3-4	10	K. str.	...	3-4	
4	220	28.6	28.0	89	139	sw	1-2	10	K. str.	...	1-2	2 bergs.
5	234	28.8	28.2	89	141	sw	1-2	10	K. str.	...	1	Several bergs. Considerable swell.
6	257	28.9	28.2	87	139	wsww	1-2	8	K. str.	Cir.	1-2	" " "
7	265	29.1	28.8	94	152	w	1	8	K. str.	Cir. K.	1-2	" " "
8	270	29.5	27.0	63	101	w	1	9	K.	...	1-2	Considerable swell.
9	292	29.9	27.7	67	111	w	1	9	Str.	Cir str.	1	Considerable swell.
10	305	30.0	29.0	83	140	w	1	10	Str.	...	1	Considerable swell.
11	312	29.2	28.3	85	136	w	1	10	Str.	...	1	
12	328	29.3	28.5	87	140	w	1	10	Str. K.	...	1	Considerable swell.
13	342	29.8	28.9	85	142	w	1-2	9	K. str.	...	1	Swell.
14	357	30.0	29.0	83	140	w	0-1	10	K. str.	...	1	Stopped for sounding. Swell.
15	368	30.0	29.5	92	153	w	1	8	K.	...	0-1	" " "
16	372	30.2	29.5	89	150	w	1	10	Str.	...	0-1	Swell.
17	391	30.0	29.5	92	153	w	1	10	Nim.	...	1	*. Swell.
18	438	30.2	29.0	81	137	w	1-2	10	K. str.	...	1	* in hour. Swell.
19	426	30.5	29.9	91	155	w	1-2	10	K. str.	...	1	
20	471	30.5	29.8	90	152	wsww	1-2	10	Str.	...	1-2	∞ ²
21	457	29.5	29.0	92	150	w	1-2	10	Nim.	...	1	* ⁰
22	468	30.0	29.9	98	164	w	2-3	10	K.	...	1-2	* ⁰ in hour.
23	476	30.3	29.5	88	148	w	3-4	2	K.	...	2-3	⊙
Mdt.	492	30.3	29.4	86	146	w	4-5	9	K.	...	3	⊙
Means.	29.343	29.6	28.8	86.6	142	...	1.8	9.2	...	...	1.6	
MARCH 31.												
At noon, lat. 60° 37' S. long. 12° 16' W.												
1	29.527	30.0	29.0	83	140	w	5	10	K.	...	3-4	
2	542	30.0	29.2	86	145	w	5-6	10	K. str.	...	4	
3	540	30.0	29.2	86	145	w	5	10	K. str.	...	4	Big berg on port bow.
4	540	30.1	29.8	96	159	w	4	10	Str.	...	3	Several bergs.
5	551	30.0	29.6	93	155	w	4-5	10	Str.	...	4	" "
6	532	30.2	30.0	97	163	WNW	4-5	10	Str.	...	4	" "
7	517	30.5	30.0	92	157	WNW	4	10	Str.	...	4	" "
8	501	30.4	30.0	94	159	WNW	5	10	Scud & str.	...	4	" "
9	515	30.0	29.7	95	158	w	4	8	Scud	...	4	⊙
10	518	29.8	29.4	94	155	NW	5-6	9	Scud	...	4	⊙
11	500	29.3	29.0	95	154	WNW	4	10	Scud	...	4-5	
12	450	29.5	29.2	95	155	NW	4-5	10	Scud	...	4-5	
13	448	29.3	29.0	95	154	NW	5	10	Scud	...	4-5	
14	380	29.1	29.0	98	158	NW	4-5	10	Fog	...	4-5	Foggy.
15	367	29.3	29.1	97	157	N	6	10	Mist	...	4-5	⊙
16	291	29.9	29.8	98	162	N	6	10	Str.	...	6	⊙
17	299	30.0	30.0	100	167	N	7	10	Str.	...	6	⊙
18	108	30.2	29.8	94	157	N	6-7	10	Scud	...	6	⊙
19	019	30.5	30.0	92	157	NNE	7	10	Nim.	...	6	* ⁰
20	28.766	30.0	30.0	100	167	N	8	10	Nim.	...	7	* ⁰
21	696	30.8	30.6	97	167	N	8-9	10	Nim.	...	7-8	* ⁰
22	604	31.5	30.0	80	142	N	8-9	10	Nim.	...	6-7	* ⁰
23	526	30.0	29.9	98	164	N	8-9	10	Nim.	...	8	* ⁰
Mdt.	476	32.0	32.0	100	182	N	8-9	10	K.	...	8	* ⁰ during hour.
Means.	29.255	30.1	29.7	94.0	157	...	5.8	9.9	...	...	5.1	

Hour.	Bar at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-8.	Remarks.	
						Direction.	Force. Amt.	Lower Spec.	Upper Spec.			
APRIL 1, 1904.												
At noon, lat. 60° 33' S. long. 12° 00' W.												
1	28.426	32.0	32.0	100	.182	N	8	10	K.	...	8	☯
2	.386	32.2	32.0	98	.179	N	7-8	10	K.	...	7-8	☯
3	.346	32.2	32.1	99	.181	N	7	10	K.	...	7	☯
4	.302	32.1	32.0	99	.180	N	6-7	10	Nim.	...	6	☯
5	.271	32.0	32.0	100	.182	N	6-7	10	Nim.	...	6	☯
6	.266	32.0	31.6	94	.172	N	4-5	10	Str.	...	6	☯ during hour.
7	.261	31.4	30.7	90	.169	NW	5	9	Str.	...	6	☯
8	.240	30.9	30.4	93	.161	NW	5	10	Str.	...	6	☯
9	.194	30.5	30.2	96	.162	NNW	5-6	10	K. str.	...	7	☯
10	.188	30.7	30.2	92	.158	N	5	10	Str.	...	6	☯
11	.157	30.5	30.4	99	.168	N	5	10	Str.	...	5-6	☯
12	.128	31.0	31.0	100	.174	NNW	4	10	Str.	...	5-6	☯
13	.117	31.0	30.9	98	.171	NW	1	10	Nim.	...	7	☯
14	.130	31.3	31.0	96	.169	W	1	10	Nim.	...	1	☯. Heavy swell. Sea gone down.
15	.149	31.3	30.9	94	.166	W	3	10	Nim.	...	2-3	☯
16	.172	31.1	30.4	89	.157	W	4-5	10	Nim.	...	3-4	☯
17	.172	31.1	30.7	94	.164	W	5-6	10	Nim.	...	5-6	☯
18	.249	31.2	30.5	90	.158	WSW	5-6	10	Mist	...	5	☯ during hour. ☯
19	.307	31.2	30.7	93	.163	WSW	5	10	Mist	...	5-6	☯
20	.350	31.0	30.4	90	.158	W	5-6	10	Nim.	...	7	☯
21	.397	29.5	28.9	90	.147	W	7-9	10	Nim.	...	7	☯
22	.445	28.0	27.8	95	.146	SW	8-10	10	Scud	...	8	☯
23	.495	28.0	27.8	95	.146	SW	7-8	10	Mist	...	7	☯
Mdt.	.553	27.2	27.2	100	.143	SW	8	10	Nim.	...	7-8	☯
Means.	28.279	30.8	30.0	95.2	.165	...	5.5	10.0	...	...	6.0	
APRIL 2.												
At noon, lat. 58° 40' S. long. 12° 23' W.												
1	28.629	27.0	27.0	100	.147	SW	7-9	10	Nim.	...	7	☯
2	.671	27.1	27.1	100	.148	SW	7	10	Str.	...	6-7	☯
3	.721	27.0	27.0	100	.147	SW	6-8	10	Str.	...	7	☯
4	(.773)	27.0	27.0	100	.147	SW	7-9	10	Str.	...	6-7	☯
5	.823	25.5	25.0	88	.121	SW	9-11	10	Nim.	...	7	☯
6	.828	26.4	26.0	92	.130	SW	9-10	10	Str.	...	8	☯
7	.872	27.2	27.2	100	.148	SW	7-10	10	Nim.	...	7	☯
8	.897	(27.0)	27.0	100	(.138)	SW	8-10	9	K. str.	...	8	☯
9	.938	28.0	28.0	100	(.153)	SW	7-8	9	K.	...	7	☯
10	.962	28.6	28.4	96	.152	SSW	7-8	9	K.	...	7	☯
11	29.007	29.1	28.6	60	.097	SW	6-8	10	K.	...	6-7	☯
12	.027	29.4	27.2	66	.106	SW	7	9	K.	...	6-7	☯
13	.034	30.1	28.3	73	.122	SW	6-7	10	K.	...	6-7	☯ faintly.
14	.072	30.2	29.0	81	.137	WSW	5-6	9	K.	...	5-6	☯
15	.073	30.7	29.3	80	.138	SW	5-6	8	K.	...	5-6	☯ faintly.
16	.078	30.7	29.8	87	.148	SW	4-5	5	K.	Cir. K.	5-6	☯
17	.097	30.9	30.0	86	.150	SW	3-4	8	K.	...	5	☯
18	.090	31.0	30.3	89	.156	WSW	3	10	K. str.	...	4	☯
19	.086	30.8	29.5	81	.140	W	3	10	Nim.	...	4	☯
20	.096	30.7	29.1	77	.133	W	0-1	7	K.	...	4	☯
21	.092	30.4	29.3	83	.142	W	1-2	9	K.	...	4	☯
22	.095	30.5	29.3	82	.140	W	1	10	K.	...	4	☯
23	.114	31.2	29.5	76	.135	NW	1-2	9	K.	...	4	☯
Mdt.	.094	32.0	30.0	75	.137	NW	1-2	9	K.	...	3-4	☯
Means.	8.965	29.1	28.2	86.3	.138	...	5.6	9.2	...	...	5.8	

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Hour.	Bar at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
APRIL 3, 1904.													At noon, lat. 56° 55' S. long. 10° 0' W.
1	29.110	31.2	29.5	76	.135	N	1-2	9	K.	...	3-4	Moon gleaming.	
2	.106	31.5	30.3	83	.150	N	1-3	9	K.	...	3	" " Lower clouds moving N.W.	
3	.106	32.0	31.1	88	.160	N	1-2	10	K.	...	3	" " " " "	
4	.099	31.0	31.0	100	.171	Calm	0	9	K. str.	...	0	Considerable swell. " " "	
5	.110	31.8	31.4	94	.168	NE	0-1	9	K. str.	...	0	" " " " [bergs.	
6	.133	31.5	31.3	97	.172	NE	0-1	10	K. str.	...	0	*° during hour. Considerable swell. 2	
7	.132	31.0	31.1	100	.174	NE	0-1	8	Str.	Cir.	0-1	Considerable swell. 2 bergs.	
8	.150	30.0	30.0	100	.167	NE	0-1	10	Nim.	...	0-1	* " " "	
9	.176	30.5	30.2	96	.162	Calm	0	10	Nim.	...	0-1	* " " "	
10	.202	30.9	30.3	92	.158	E	0-1	8	K.	...	0-1	⊙. Sounding. "	
11	.233	31.5	29.8	78	.138	E	0-1	10	...	Cir.	0-1	∞ ² ⊙	
12	.243	33.0	30.5	73	.138	Calm	0	8	...	Cir.	0-1	∞ ² ⊙	
13	.270	32.0	30.0	76	.137	sw	0	10	Nim.	...	1	" " " "	
14	.294	31.3	29.7	78	.138	sw	0-1	10	Nim	...	1	* " " "	
15	.320	31.0	29.9	84	.146	sw	0-1	10	Nim.	...	0-1	*. Heavy swell.	
16	.368	31.0	29.6	79	.139	sw	1	10	K.	...	0-1	* during hour. Heavy swell.	
17	.390	31.2	30.0	83	.146	w	1-2	9	K. str.	...	0-1	* " " "	
18	.431	31.0	30.0	85	.148	sw	2	10	K. str.	...	0-1	Confused swell.	
19	.452	31.0	30.0	85	.148	sw	2-3	10	K. str.	...	2-3	" " " "	
20	.481	30.0	29.0	83	.140	sw	2	9	K. str.	...	2	" " " "	
21	.515	31.3	30.0	82	.145	wsW	1-2	10	Str.	...	2-8	" " " "	
22	.568	32.2	30.1	75	.137	w	1-2	9	K. str.	...	2-3	Moon gleaming. Confused swell.	
23	.616	32.3	30.9	83	.152	w	2-3	6	K.	...	2-3	" " " "	
Mdt.	.626	32.4	30.2	75	.138	w	2-3	0	...	...	2-3	" " " "	
Means.	29.297	31.4	30.2	85.2	.150	...	1.1	8.9	...	...	1.3		
APRIL 4.													At noon, lat. 55° 8' S. long. 10° 0' W.
1	29.634	32.6	30.2	73	.136	w	2	6	K.	...	2-3	Moon and stars shining. Swell.	
2	.654	32.7	30.5	75	.141	w	1-2	5	K.	...	1-2	" " " "	
3	.675	32.6	31.0	82	.151	NW	1-2	0	...	...	1-2	" " " "	
4	.682	32.4	31.2	85	.158	WNW	1	0	...	...	1	" " " "	
5	.684	32.6	31.4	86	.160	NW	0-1	0	...	...	0-1	" " " "	
6	.688	32.6	31.3	85	.158	NW	1	5	K. str.	...	0-1	1 berg on weather beam.	
7	.715	32.5	30.0	72	.133	NW	3	4	...	Cir str.	3	⊙. Sun rose at 6.39.	
8	.696	32.2	29.4	68	.124	NW	3-4	10	Str. K.	Cir str.	2-3	⊙. ⊕	
9	.687	32.6	29.8	69	.128	N	4	10	...	Cir str.	2-3	⊙. ⊕	
10	.656	33.0	30.5	73	.138	N	5	10	...	Cir str.	3-4	⊙. ⊕	
11	.604	33.2	31.7	83	.159	N	5-6	10	...	Cir str.	4	⊙. Sounding 6.30 to 8 a.m. ↗	
12	.570	33.8	33.5	97	.188	N	6	10	K.	Cir str.	4-5	⊙. ↗	
13	.532	33.5	33.7	100	.192	NW	6-7	10	Str.	...	5	⊙. ↗	
14	.455	33.8	33.8	100	.194	NNW	7	10	Str.	...	5	Some bergs seen at 6 a.m. ↗	
15	.380	34.0	34.0	100	.196	N	7-8	10	Nim.	...	5	* " " "	
16	.322	34.0	34.0	100	.196	N	7-8	10	Str.	...	5-6	* during hour. ↗	
17	.244	34.1	33.4	92	.183	N	7-8	10	Str.	...	5-6	↗	
18	.197	35.0	34.0	90	.184	N	7-8	10	K. str.	...	6	↗	
19	.152	35.2	35.0	98	.202	N	7-8	10	Mist	...	6	↗	
20	.128	35.7	35.2	96	.200	N	8	10	Mist	...	6	↗	
21	.081	36.0	35.9	99	.210	N	8-9	10	Mist	...	6-7	↗	
22	.059	36.0	36.0	100	.212	N	8	10	Nim.	...	6	↗	
23	.069	36.0	35.8	98	.208	N	7-8	10	Nim.	...	6-7	↗	
Mdt.	.012	36.0	35.5	96	.203	N	6-7	10	Nim.	...	6	↗	
Means.	29.441	33.8	32.7	88.2	.173	...	5.2	7.9	...	...	4.0		

Hour.	Bar at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt	Lower Spec.	Upper Spec.			
APRIL 5, 1904.													At noon, lat. 55° 25' S. long. 13° 00' W.
1	28.814	36.5	36.0	95	.206	N	6-7	10	Nim.	...	6	●	
2	.715	37.0	37.1	100	.220	N	7	10	Nim.	...	6	●	
3	.645	37.2	37.0	98	.218	N	8	10	Nim.	...	6-7	●	
4	.572	37.9	37.4	96	.217	N	7-8	10	Nim.	...	6-7	●	
5	.517	37.9	37.6	97	.221	N	7-8	10	Nim.	...	6	●	
6	.492	37.6	37.6	100	.225	NNW	7	10	Nim.	...	5-6	●	
7	.534	36.7	36.6	99	.216	NNW	5-6	10	Nim.	...	5-6	● 1 large berg about two miles long.	
8	.574	35.0	35.0	100	.204	NW	5-6	10	Nim.	...	5-6	●	
9	.642	35.2	34.4	92	.190	NW	5	10	...	Cir. K.	5	○	
10	.673	35.3	34.8	96	.197	NW	5-6	3	...	Cir. K.	5	○	
11	.691	35.5	34.5	91	.189	NW	6	3	Scud	...	5	○	
12	.718	36.0	35.5	96	.203	NW	6-7	3	K.	...	6	○	
13	.752	36.1	36.0	99	.211	NW	6-7	0	...	...	6	○	
14	.780	36.0	35.8	98	.208	NW	7	0	...	...	6	○	
15	.814	35.4	33.8	86	.177	NW	7	9	K.	...	6	○	
16	.894	35.5	34.3	88	.177	NW	5-6	10	K.	...	5	○	
17	.881	35.3	33.1	79	.134	NW	7	4	...	Cir.	6	○	
18	.881	35.5	33.0	77	.160	NW	6-7	8	Str.	...	6	○	
19	.899	35.8	33.5	80	.168	NW	5-6	7	K.	...	6	○	
20	.938	32.9	32.0	90	.168	NW	5-6	6	K.	...	6	○ Stars shining. 1 berg to leeward.	
21	.987	34.2	32.8	85	.170	WNW	3-5	0	...	...	6	○	
22	.969	34.5	33.0	84	.170	NW	5	6	Str.	...	5	○	
23	.992	34.0	33.0	89	.176	NW	5-6	6	K. str.	...	4	○ Moon gleaming.	
Mdt.	.989	34.5	33.0	84	.170	NW	5-6	2	K. str.	...	3-4	○ Many bergs seen since 20 hours.	
Means.	28.765	35.7	34.9	91.6	.193	...	6.2	6.5	...	...	5.6		
APRIL 6.													At noon, lat. 54° 33' S. long. 11° 47' W.
1	29.043	34.2	32.2	80	.158	NW	6	1	...	Cir. K.	6	○ Moon and stars gleaming.	
2	.053	33.9	32.4	84	.165	NW	4	2	...	Cir. K.	5-6	○	
3	.099	34.2	32.2	80	.158	NW	5-6	0	...	...	6	○	
4	.130	34.1	32.0	78	.155	NW	6-7	0	...	...	6	○ Many bergs seen this watch.	
5	.177	34.8	32.5	78	.158	NW	7	0	...	...	6	○	
6	.159	34.8	32.9	82	.164	NW	6-7	0	...	...	6	○	
7	.176	34.9	33.2	83	.169	NW	6-7	0	...	...	5-6	○	
8	.219	35.0	33.0	80	.164	NW	6-7	6	K.	Cir. K.	5-6	○	
9	.204	35.5	33.5	82	.170	NW	6-7	9	Nim.	Cir str.	5-6	○	
10	.230	35.4	32.0	70	.146	NW	7	6	K.	Cir. K.	6	○	
11	.249	35.9	34.0	83	.176	NW	6-7	6	K.	...	6	○	
12	.247	35.9	34.0	83	.176	NW	6-8	7	K.	...	6	○	
13	.190	36.0	35.6	96	.204	NW	6-8	6	K.	...	6	○	
14	.179	36.3	34.8	87	.186	NW	7-8	3	...	Cir.	6	○	
15	.202	36.8	35.0	85	.184	NW	7-8	1	...	Cir.	6	○	
16	.175	36.2	35.0	89	.191	NW	7	10	Alto K.	...	6	○	
17	.148	37.0	35.4	86	.189	NW	6-8	8	K. str.	Cir.	5-6	○ No bergs visible.	
18	.126	37.0	35.9	90	.198	NW	7-8	10	Str.	...	6-7	○	
19	.110	37.7	35.8	83	.190	NNW	7-8	10	Nim.	...	6	○	
20	.087	37.5	36.0	87	.195	NNW	8-9	10	Nim.	...	6-7	○	
21	.052	36.8	36.0	93	.202	NW	9	10	Str.	...	8	○ Hove to.	
22	.051	36.0	35.8	98	.202	NW	8	10	Nim.	...	6-7	○ Hove to. Port tack.	
23	.29.046	36.5	36.0	95	.206	NW	7-8	10	Nim.	...	6-7	○	
Mdt.	28.966	36.0	36.0	100	.212	NW	7-8	10	Nim.	...	6-7	○	
Means.	29.138	35.8	34.2	85.5	.180	...	7.0	5.6	...	...	6.1		

Hour.	Bar at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
APRIL 7, 1904.												
At noon, lat. 53° 58' S. long. 10° 10' W.												
1	29.056	37.0	36.8	98	.216	WNW	6-7	10	Nim.	...	6-7	☉☉☉ Lower clouds from N. W. ☉☉☉ Moon ☉☉☉ " " [and stars gleaming. No bergs seen during night. ☉☉☉ Passing shower of ▲ 10.5 to 10.20. ☉☉☉ ☉☉

APRIL 8.												At noon, lat. 52° 33' S. long. 9° 47' W.
1	29.521	33.0	33.0	100	.188	NW	2	10	Nim.	...	4	*☉☉☉
2	.507	33.0	33.0	100	.188	NW	1-2	10	Nim.	...	4	*☉☉☉ Bar pumping slightly.
3	.556	32.8	32.5	97	.181	NW	1-2	10	Str. & Nim.	...	3-4	*☉☉☉
4	.534	32.7	32.5	98	.182	NW	1	10	Nim.	...	3-4	*☉☉☉
5	.535	32.6	32.4	98	.181	NW	2-3	10	Nim.	...	4	Sleet. Moon gleaming.
6	.540	32.5	32.2	97	.179	WNW	2	10	K. str.	...	2	Sleet during hour. Confused heavy swell.
7	.603	33.2	32.9	97	.184	WNW	3	8	...	Cir. K.	2-3	Confused heavy swell.
8	.607	34.0	33.2	91	.180	NW	3-4	3	K.	...	3	☉☉☉ Confused heavy swell.
9	.644	33.0	32.5	94	.177	WNW	3	7	K. str. & Nim.	...	3	☉☉☉
10	.681	35.0	34.1	91	.186	W	2-3	1	K. str.	...	2-3	☉☉☉
11	.710	34.9	34.0	91	.195	W	2	0	...	...	2	☉☉☉
12	.708	36.2	35.1	90	.193	W	1-2	0	...	...	1-2	☉☉☉ A little str. to W. horizon.
13	.698	36.0	35.0	91	.193	W	1-2	0	...	...	1-2	☉☉☉ Swell.
14	.721	36.0	34.7	88	.193	WNW	2	0	...	...	1-2	☉☉☉
15	.733	35.7	34.8	92	.194	WNW	2-3	0	...	...	2	☉☉☉ Air very clear.
16	.740	35.6	34.7	92	.193	WNW	3	2	Scud	Cir.	2	☉☉☉
17	.768	35.3	34.4	92	.189	W	3	4	K.	...	2	☉☉☉
18	.798	34.0	33.2	91	.180	WNW	2-3	3	K.	...	2-3	
19	.828	34.6	34.0	94	.189	NW	2-3	0	...	0	2-3	Stars shining brightly.
20	.850	34.8	33.9	92	.184	WNW	3	0	...	0	2-3	" "
21	.861	34.6	33.5	90	.179	W	3	0	...	0	2-3	" "
22	.885	34.7	33.7	91	.182	NW	2-3	4	...	Cir.	2-3	" "
23	.880	34.0	32.8	87	.172	NW	2-3	0	...	0	2-3	Swell. " Stars shining brightly.
Mdt.	.887	34.5	33.3	87	.176	W	1-2	2	K. str.	...	2-3	Str. on S S.W. horizon. Moon low but [bright.
Means.	29.700	34.3	34.0	98.0	.185	...	2.3	3.9	...	...	2.6	

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
APRIL 9, 1904.													At noon, lat. 51° 07' S. long. 9° 31' W.
1	29.886	35.0	33.8	88	.180	W	1-2	0	...	...	2-3	Moon and stars gleaming.	
2	.854	35.0	33.8	88	.180	NW	1	0	...	...	2-3	" "	
3	.865	34.8	34.0	92	.186	NW	1-2	0	...	...	2-3	" "	
4	.856	34.8	34.0	92	.186	NW	1	3	...	Cir. K.	2	" "	
5	.863	34.7	34.0	93	.188	NW	2	8	...	Cir. K.	1	Swell. Moon and stars gleaming.	
6	.856	34.9	33.9	91	.183	NW	1-2	1	...	Cir. K.	1	" "	
7	.879	35.2	33.4	83	.171	NW	2	2	K.	...	1	Sounding.	
8	.878	35.0	33.2	82	.168	NW	2-3	6	...	Cir. K, Cir. str.	1-2	☉	
9	.873	35.0	33.4	84	.172	NW	3	9	K. str.	...	2	☉	
10	.877	35.8	34.0	84	.177	NW	2-4	10	K. str.	...	2-3	Swell.	
11	.882	35.7	34.5	89	.188	WNW	2-3	10	K. str.	...	1-2	☉	
12	.858	36.0	34.7	88	.188	WNW	3-4	10	K. str.	...	2-3	☉. Trawl down.	
13	.839	35.9	34.8	91	.192	WNW	3-4	10	K. str.	...	3	Trawl down.	
14	.810	36.0	35.0	91	.193	WNW	3-4	9	Str.	...	3	☉. Trawl down.	
15	.831	35.8	35.2	95	.199	WNW	4	10	Nim.	...	3	●	
16	.796	36.3	36.0	97	.208	W	4	8	Str.	...	3	☉	
17	.776	36.8	36.0	93	.202	WNW	4	10	K. str.	...	3		
18	.779	37.0	36.4	95	.208	WNW	4-5	10	Str.	...	3	Swell.	
19	.785	36.3	35.5	94	.200	WNW	4-5	10	Str.	...	3		
20	.786	37.2	36.8	96	.214	NW	4	10	Str.	...	4		
21	.791	37.6	37.0	95	.213	WNW	4-5	10	Nim.	...	4	●°	
22	.808	37.4	36.8	95	.212	WNW	4-5	10	Nim.	...	3-4	●	
23	.806	37.2	36.4	93	.206	NW	4	10	K. str.	...	3-4	● during hour.	
Mdt.	.804	37.2	36.4	93	.206	NW	4-5	10	Str.	...	3-4		
Means.	29.835	35.9	34.9	90.9	.192	...	3.1	7.3	...	...	2.6		
APRIL 10.													At noon, lat. 49° 25' S. long. 9° 21' W.
1	29.804	37.8	37.0	93	.210	NW	4	10	Str.	...	3-4		
2	.810	37.7	37.0	94	.212	NW	5-6	6	K.	...	4-5	☉	
3	.810	37.8	37.0	93	.210	WNW	4-5	10	Nim.	...	4-5	● during hour.	
4	.811	38.0	37.0	91	.208	NW	4-5	8	K. str.	Cir.	3-4		
5	.828	38.0	37.0	91	.208	NW	5	9	Str.	Cir.	4		
6	.840	38.0	37.1	92	.210	NW	5	9	...	Cir & Cir. K.	4		
7	.843	38.0	37.2	93	.212	NW	5	9	...	Cir. K.	4		
8	.890	38.0	37.0	91	.208	NW	4-5	10	K. str.	...	3-4		
9	.877	37.0	36.5	96	.210	NW	4-5	9	K. nim.	Cir. K, cir. str.	3-4	☉	
10	.883	38.0	37.2	93	.212	NW	5	8	...	Cir. K, cir. str.	4	☉	
11	.879	38.2	37.2	92	.210	NW	5	2	K. str.	Cir str.	4	☉	
12	.893	38.5	37.5	92	.213	WNW	5	8	...	Cir & Cir. str.	4	☉	
13	.770	39.0	38.0	92	.218	WNW	5	8	K.	Cir.	4	☉	
14	.766	39.3	38.2	92	.219	WNW	5	2	...	Cir.	4	☉	
15	.761	39.5	38.3	90	.218	WNW	4	10	Str.	...	4		
16	.760	39.7	38.2	88	.214	NW	5	10	Str.	...	4		
17	.750	39.7	38.8	92	.226	NW	5-6	10	Str.	...	4		
18	.740	40.4	39.7	95	.237	NW	5-6	10	K.	...	3	☉	
19	.730	41.2	41.0	98	.255	NW	6	0	...	...	4	☉	
20	.710	41.1	40.5	95	.245	NW	5	1	Str.	...	3-4	Stars bright.	
21	.680	41.2	40.2	93	.237	NW	5	10	Str.	...	4		
22	.636	41.2	40.3	93	.240	NW	6	10	Nim.	...	4-5	●☉	
23	.588	41.4	41.0	97	.252	NW	6-8	10	Nim.	...	5	●☉	
Mdt.	.514	41.2	41.0	98	.255	NW	7-9	10	Nim.	...	6	●☉☉	
Means.	29.774	39.2	38.3	93.1	.222	...	5.2	7.9	...	...	4.0		

VOYAGE OF THE SCOTIA, 1902-1904.

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Hour.	Bar at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
APRIL 11, 1904.												
At noon, lat. 48° 55' S. long. 9° 25' W.												
1	29.451	41.5	41.3	98	.258	NW	8	10	Nim.	...	6-7	☉☉
2	.410	42.0	41.8	98	.263	NW	7-8	10	Nim.	...	6-7	☉☉
3	.334	42.3	42.3	100	.270	NW	7-9	10	Nim.	...	7	☉☉
4	.385	42.1	42.1	100	.268	NW	8	10	Nim.	...	6	☉☉
5	.338	42.1	42.1	100	.268	NW	7-8	10	Nim.	...	6	☉☉
6	.339	42.1	42.1	100	.268	NW	7	10	Str. mist	...	7	☉☉
7	.357	41.8	41.8	100	.265	NW	6-7	10	Mist	...	6-7	☉☉
8	.390	41.0	41.0	100	.257	NW	6	10	Mist	...	6	☉☉
9	.470	40.8	40.8	100	.255	W	5-7	10	Mist	...	6	☉☉
10	.471	40.2	40.2	100	.249	W	5-6	10	Mist	...	5-6	☉☉
11	.471	39.8	39.9	100	.245	WNW	5	10	Mist	...	4-5	☉☉
12	.566	38.7	38.7	100	.235	W	3-4	10	Str.	...	3-4	☉☉ Confused swell.
13	.619	36.8	36.3	96	.208	S	2-3	10	Str.	...	1-2	☉☉ Confused swell.
14	.640	36.2	35.7	95	.204	SSE	1-2	10	Str.	...	4	☉☉
15	.650	36.6	35.2	88	.190	S	2	10	K. str.	...	1-2	☉☉
16	.683	36.2	35.1	90	.193	S	1-2	10	Str.	...	1-2	☉☉
17	.747	35.8	34.9	93	.195	SE	2	10	Str.	...	2	☉☉
18	.757	36.0	34.0	82	.175	SE	2	10	Str. K.	...	2	☉☉
19	.782	36.0	34.3	85	.180	SE	2-3	10	Str.	...	2	☉☉
20	.808	36.1	34.0	81	.174	ESE	2	10	Str.	...	2	☉☉
21	.796	36.4	34.3	82	.176	E	2-3	10	Str.	...	2	☉☉
22	.878	36.3	34.5	85	.181	E	2-3	10	Str.	...	2-3	☉☉
23	.877	36.1	34.3	84	.179	SE	3	10	Str.	...	2-3	☉☉
Mdt.	.872	36.6	34.1	79	.171	E	2-3	10	Str.	...	2-3	☉☉
Means.	29.587	38.7	34.1	93.2	.222	...	4.4	10	...	...	4.0	
APRIL 12.												
At noon, lat. 48° 0' S. long. 9° 50' W.												
1	29.857	36.7	35.0	85	.185	E	3	10	Str.	...	2-3	☉☉ Confused swell.
2	.850	36.1	35.1	91	.194	E	3	10	Str.	...	2	☉☉
3	.829	37.0	35.0	83	.182	ENE	3-4	10	Str.	...	2-3	☉☉
4	.831	36.8	35.3	88	.190	E	3	10	Str.	...	2-3	☉☉
5	.807	37.1	35.4	85	.188	E	3	9	K.	...	2-3	☉☉
6	.798	37.5	36.0	87	.195	E	4	9	K. str.	...	3	☉☉
7	.772	37.7	36.0	85	.193	ENE	4	10	K. str.	...	3	☉☉
8	.791	38.0	36.6	88	.201	ENE	3-5	10	Str.	...	3	☉☉
9	.779	38.1	37.0	90	.207	NE	4-5	10	Str.	...	3-4	☉☉
10	.734	38.1	37.3	93	.213	ENE	4-5	10	Str. nim.	...	3-4	☉☉
11	.715	38.2	37.7	96	.220	E	4-5	10	Nim.	...	4	☉☉ Trawling.
12	.697	38.5	38.0	96	.223	E	4-5	10	Nim.	...	4	☉☉
13	.637	38.8	38.2	96	.224	E	4-5	10	Nim.	...	4	☉☉
14	.614	39.4	39.0	97	.233	E	3-4	10	Nim.	...	3-4	☉☉
15	.586	40.5	40.2	98	.245	ENE	3	10	Nim.	...	3	☉☉
16	.574	41.7	41.3	96	.256	N	2	10	Str.	...	0-1	☉☉ during hour.
17	.548	41.9	41.3	95	.253	N	2	10	Str.	...	1	☉☉
18	.528	42.0	41.7	98	.260	NE	2	10	Str.	...	2	☉☉ Sounding 1332. Trawling.
19	.514	42.8	40.7	90	.239	N	2	10	Str.	...	2	☉☉
20	.537	42.1	41.8	97	.262	N	2-3	10	Nim.	...	2	☉☉
21	.477	42.0	41.8	98	.263	N	2-3	10	Nim.	...	2	☉☉
22	.440	42.0	42.0	100	.267	N	2	10	Nim.	...	1-2	☉☉ Slight swell.
23	.416	42.2	42.0	98	.265	N	2	10	Nim.	...	1-2	☉☉
Mdt.	.389	42.0	42.0	100	.267	N	2	10	Mist.	...	1	☉☉
Means.	29.655	39.4	38.6	92.9	.226	...	3.1	9.9	...	...	2.5	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
APRIL 13, 1904.													At noon, lat. 48° 6' S. long. 10° 5' 45" W.
1	29.357	42.0	42.0	100	.267	N	2-3	8	Str.	...	1-2	Slight swell.	
2	.313	42.0	42.0	100	.267	N	2-3	10	Mist	...	1-2	● Slight swell.	
3	.299	42.0	42.0	100	.267	N	2	10	Mist	...	1-2	● Slight swell.	
4	.274	41.5	41.5	100	.262	NW	2-3	10	Mist	...	1-2	● Slight swell.	
5	.260	39.8	39.5	98	.239	W	2	10	Mist	...	1-2	● Slight swell.	
6	.251	39.0	39.0	100	.238	SW	3	10	Mist	...	1-2	● Slight swell.	
7	.284	37.9	37.4	96	.217	SSW	5	10	Str. mist	...	2-3	● Slight swell.	
8	.312	37.0	36.0	91	.200	SW	5	10	K. str.	...	3	● Slight swell.	
9	.334	36.4	35.0	88	.189	SW	5	8	K.	...	3	● Slight swell.	
10	.387	36.9	35.0	84	.183	SW	5-6	9	K.	Cir.	3-4	Passing ● about 9.40.	
11	.430	36.3	34.5	85	.181	SW	5-6	10	K.	...	3-4	● Sleet.	
12	.446	35.0	34.0	90	.184	SW	5	10	K. & nim.	...	4	● Sleet.	
13	.456	35.8	33.0	75	.158	SW	5-6	10	K. str.	...	3-4	● Sleet.	
14	.483	34.8	32.6	79	.159	SW	4-5	10	K. str.	...	4	● Sleet.	
15	.506	35.2	31.7	69	.143	SW	4	10	K. str.	...	4-5	● Sleet.	
16	.556	35.5	32.0	69	.145	SW	4-5	9	K. str.	...	4-5	● Sleet.	
17	.578	36.0	32.7	72	.153	SW	3-4	6	K.	...	4-5	● Sleet.	
18	.604	36.2	33.3	75	.161	SW	4-5	1	K.	...	4	▲ shower during hour.	
19	.648	36.0	33.7	80	.170	W	4-5	0	...	...	4	▲ shower during hour.	
20	.692	35.2	32.8	78	.159	W	4	0	...	...	4	▲ shower during hour.	
21	.732	35.4	33.2	80	.165	SW	4	0	...	...	4	▲ shower during hour.	
22	.760	34.5	32.2	77	.156	SW	4-5	4	K.	...	3-4	▲ shower during hour.	
23	.795	34.5	32.2	77	.156	SW	4	6	K.	...	3	▲ shower during hour.	
Mdt.	.808	36.0	32.2	68	.145	SW	4	10	Str.	...	3	▲ shower during hour.	
Means.	29.481	37.1	35.4	84.6	.190	...	4.0	7.5	...	...	...	...	

APRIL 14.													At noon, lat. 46° 35' S. long. 10° 10' W.
1	29.843	36.3	32.0	64	.140	SW	4	10	Str.	...	3		
2	.869	36.9	32.3	63	.140	SSW	4	8	K.	...	3		
3	.888	36.9	32.9	68	.149	SW	3-4	10	K. str.	...	2-3		
4	.877	36.1	31.5	63	.134	SW	2	1	K. str.	...	1-2		
5	.903	36.3	32.1	65	.142	SW	1-2	7	K. str.	...	1-2		
6	.905	36.7	32.7	68	.147	SW	2	8	K. str.	Cir.	1	Sunrise 6.42.	
7	.910	36.8	32.9	69	.150	W	1	6	...	Cir.	1	○ S.W. swell.	
8	.931	36.9	32.8	67	.148	W	2	8	K. str.	Cir str.	1	○ S.W. swell.	
9	.929	37.6	34.0	71	.160	WSW	1-2	7	...	Cir & Cir str.	1	○ S.W. swell.	
10	.912	37.9	34.0	69	.158	W	1-2	8	...	Cir.	1-2	○ S.W. swell.	
11	.925	38.0	34.2	69	.160	W	1-2	9	...	Cir & Cir str.	1-2	○ S.W. swell.	
12	.916	38.6	34.8	71	.165	WNW	1-2	9	...	Cir & Cir str.	1-2	○ S.W. swell.	
13	.898	39.2	35.2	70	.165	NW	0-1	9	K. str.	Cir & Cir str.	0-1	○ S.W. swell.	
14	.889	39.5	35.8	72	.174	NW	1-2	10	...	Cir str.	1-2	○ S.W. swell.	
15	.875	40.0	35.7	67	.167	N	0-1	10	Str.	...	0-1	○ S.W. swell.	
16	.841	39.4	35.5	71	.170	N	1-2	7	K.	...	0-1	○ S.W. swell.	
17	.813	39.5	36.2	74	.180	N	3	9	K. str.	...	1-2	○ S.W. swell.	
18	.806	40.1	37.0	75	.188	NE	2-3	10	Nim.	...	1-2	● S.W. swell.	
19	.827	41.1	38.2	77	.200	NE	3	10	Str.	...	2	● S.W. swell.	
20	.769	41.8	39.7	85	.223	NE	4	10	Nim.	...	2	● S.W. swell.	
21	.818	42.8	42.2	96	.261	NE	5	10	Nim.	...	3	● S.W. swell.	
22	.680	44.0	43.0	92	.265	NE	4	10	Str.	...	4	● S.W. swell.	
23	.639	44.5	44.2	98	.286	NE	5	10	Nim.	...	4-5	● S.W. swell.	
Mdt.	.591	45.2	45.0	99	.297	NE	5	10	Nim.	...	4-5	● S.W. swell.	
Means.	29.844	39.3	36.0	74.3	.182	...	2.6	8.6	...	...	1.9	...	

VOYAGE OF THE SCOTIA, 1902-1904.

87

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-6.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
APRIL 15, 1904.												
At noon, lat. 45° 54' S. long. 10° 4' W.												
1	29.496	46.3	46.2	99	.312	NE	3	10	Nim.	...	5	● during hour. Lying to.
2	.418	48.0	48.0	100	.335	N	4	10	K.	...	4-5	
3	.391	47.3	47.1	99	.321	NW	3-4	0	...	...	4	
4	.363	46.9	46.7	99	.316	N	3	3	Str.	...	2-3	
5	.275	46.8	46.2	95	.306	N	2-3	2	K. str.	...	3	
6	.238	46.7	45.9	94	.301	N	2	0	...	...	2-3	
7	.217	47.0	46.0	93	.298	NNW	3	1	...	Cir.	3	○ Lying to.
8	.215	47.0	46.2	94	.303	N	2-3	6	...	Cir & Cir str.	2-3	○ " "
9	.184	47.2	46.5	96	.308	N	3-4	6	K.	Cir & Cir. K.	3	○ " "
10	.142	47.3	46.6	95	.309	N	3	9	...	Cir & Cir. K.	3	○ " "
11	.093	47.4	46.9	96	.316	N	3-4	8	K.	...	3	○ " "
12	.027	48.5	46.7	87	.297	N	4	2	...	Cir.	3-4	○ " "
13	28.947	48.9	45.9	80	.276	N	6-7	4	K.	...	4-5	○ " "
14	.843	48.4	45.4	80	.269	NNW	6-7	10	K. str.	...	4-5	○ " "
15	.704	45.9	45.5	98	.300	NNW	7-9	10	Nim.	...	5-6	● " "
16	.762	45.2	44.9	98	.295	NW	7-9	8	K. str.	...	6-7	○ " "
17	.899	44.0	43.0	92	.265	W	6-7	10	Str.	...	6	○ " "
18	.983	43.2	42.0	90	.253	W	6-7	10	Str.	...	6	○ " "
19	29.063	42.3	40.3	85	.228	W	7	10	Str.	...	6	○ " "
20	.120	42.9	40.1	80	.218	W	5-6	10	Str.	...	6	○ " "
21	.164	42.1	41.0	91	.244	W	4-5	0	...	...	5	○ " "
22	.167	43.0	40.8	83	.230	W	5	0	...	...	6-7	○ " "
23	.190	43.2	41.0	83	.232	W	4-5	0	...	...	6	○ " "
Mdt.	.215	43.0	41.7	90	.249	W	5-6	0	...	...	6	Stars shining brightly.
Means.	29.130	45.8	44.6	91.5	.283	...	4.6	5.4	...	...	4.5	
APRIL 16.												
At noon, lat. 45° 25' S. long. 10° 19' W.												
1	29.229	43.0	41.9	91	.253	W	4-5	0	...	...	5-6	Stars shining brightly.
2	.258	43.0	41.8	90	.251	W	4-5	0	...	...	5-6	" "
3	.284	43.0	40.6	82	.226	W	4-5	2	K.	W.	5	" "
4	.312	42.9	40.2	80	.220	W	4-5	0	...	...	4	
5	.335	42.7	39.8	79	.214	W	4	0	...	...	4	
6	.352	41.9	38.9	78	.207	W	4	8	K. str.	...	4	
7	.363	43.2	40.0	77	.213	W	4	5	K. str.	Cir.	4	Sunrise 6.37.
8	.430	43.8	40.0	72	.207	W	3-4	7	K.	Cir str.	4	○
9	.419	44.3	40.3	71	.209	NW	4	9	K.	...	3-4	○ [cir str. on E. horizon.
10	.427	44.2	41.0	76	.222	NW	3-4	1	...	Cir & Cir. K.	3-4	○ Some str. on N.W. horizon, and
11	.458	45.0	41.1	72	.216	NW	3	6	...	Cir str.	3	○
12	.457	45.9	42.3	75	.232	NW	3-4	2	...	...	3-4	○
13	.393	46.0	43.4	82	.252	NNW	3-4	9	K. str.	Cir & Cir. K.	3-4	○
14	.374	47.0	44.8	85	.271	NNW	3-4	5	...	...	3-4	○
15	.372	47.1	45.2	86	.279	NNW	4	8	K.	...	3-4	○
16	.352	47.6	45.5	86	.280	N	4-5	10	Str. & Nb.	...	3-4	○
17	.323	48.1	46.5	89	.296	N	4-5	7	K.	...	4-5	○
18	.283	48.3	42.0	60	.204	N	6	7	K.	...	5	○
19	.282	49.0	43.3	64	.222	N	7	10	Nim.	...	6	● ² at 18.30.
20	.340	48.2	42.9	97	.273	WNW	7-8	10	Nim.	...	6	● ²
21	.328	43.0	42.1	93	.245	W	5-6	10	Str.	...	6	● ⁰ during hour.
22	.351	42.6	40.5	85	.229	W	4-5	10	Str.	...	6	
23	.384	42.8	40.0	79	.217	W	4-5	10	Str.	...	6	Confused swell.
Mdt.	.391	42.7	39.0	73	.200	W	4-5	8	Str.	...	6	" "
Means.	29.353	44.6	41.8	80.0	.235	...	4.5	6.0	...	...	4.5	

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.		
APRIL 17, 1904.											
At noon, lat. 44° 30' S. Long. 9° 43' W.											
1	29.409	42.2	39.0	77	.205	W	4-5	0	...	0	6
2	.417	43.0	40.0	78	.215	W	4-5	6	K.	...	6
3	.439	42.0	39.2	79	.211	W	4-5	7	K.	...	6
4	.458	43.0	39.0	71	.197	W	4-6	1	K. str.	...	4-5
5	.484	43.3	39.6	73	.205	W	4-6	9	K. str.	...	4-5
6	.523	42.0	39.0	78	.207	W	4	1	K.&Nim	...	3-4
7	.523	42.0	38.8	77	.204	W	4-6	1	...	Cir.	4-5
8	.604	41.1	39.5	87	.224	W	5-6	3	K.	...	4
9	.614	43.7	39.1	68	.193	W	5-6	3	K.	...	4-5
10	.655	44.0	40.3	73	.211	W	4-5	4	K. str.	...	4-5
11	.686	45.0	40.5	69	.206	W	4-6	6	K.	...	4-5
12	.718	45.9	41.2	68	.212	W	5-6	3	K.	...	4-5
13	.690	44.8	42.3	81	.241	WNW	5-6	7	K.	...	4-5
14	.667	47.1	43.8	77	.248	WNW	6-8	7	K.	...	5
15	.674	47.8	44.2	75	.249	NW	5-8	9	K.	...	5-6
16	.688	48.5	45.0	76	.259	WNW	5-7	1	K.	...	5-6
17	.696	48.9	45.6	78	.269	NW	4-7	3	K.	...	5-6
18	.697	49.2	41.2	54	.226	WNW	5-7	3	K.	...	6
19	.719	50.0	41.7	52	.187	WNW	6-7	0	...	...	6
20	.709	50.2	42.5	55	.199	WNW	6-7	3	K.	...	6
21	.715	50.3	42.7	56	.201	WNW	6-7	2	K.	...	6
22	.750	51.0	48.0	80	.299	WNW	6-7	7	K. str.	...	5
23	.748	51.3	48.0	78	.293	NW	5-7	9	K.	...	5
Mdt.	.732	51.2	49.5	89	.333	NW	5-6	10	Str.	...	5
Means.	29.626	46.1	41.0	72.9	.229	...	5.5	4.4	...	...	5.1

APRIL 18.												At noon, lat. 43° 21' S. long. 8° 30' W.
1	29.717	52.2	50.5	89	.345	NW	6-7	10	Str.	...	5	☉
2	.684	52.8	50.0	81	.325	NW	6-8	8	K.	...	5-6	☉
3	.671	52.7	50.0	82	.326	NW	6-8	10	K.	...	6	☉
4	.632	53.0	50.8	85	.342	NW	8-9	10	Str.	...	7	☉
5	.591	53.4	51.2	85	.347	NW	8	10	Str.	...	6-7	☉
6	.588	53.5	51.9	89	.364	NW	7-8	10	Str. & K. str.	...	7	☉
7	.629	54.0	52.4	89	.371	NW	7	9	Str. & K. str.	...	6-7	☉
8	.636	53.8	51.9	87	.361	NW	6-7	10	Str.	...	6-7	☉
9	.629	54.0	52.0	86	.360	NW	7	10	Str.	...	6-7	☉
10	.620	54.3	52.7	89	.377	NW	7-8	10	Str.	...	6-7	☉
11	.616	54.8	53.0	88	.378	NW	7	10	Nim.	...	6-7	☉
12	.588	55.0	53.2	88	.381	NW	7	10	Nim.	...	6	☉
13	.550	54.8	53.3	90	.387	NW	5-8	10	Str.	...	7	☉
14	.530	55.0	53.6	91	.392	NW	5-7	10	Nim.	...	7	☉
15	.520	55.1	53.8	91	.396	NW	6-8	10	Nim.	...	6-7	☉
16	.515	55.4	54.0	91	.398	NW	5-8	10	Str.	...	6-7	☉
17	.483	55.1	53.5	89	.388	NW	5-7	10	Str.	...	6-7	☉
18	.450	54.3	53.6	95	.402	NNW	7	10	K.&Nim.	...	6-7	☉
19	.428	54.8	53.9	94	.405	WNW	7-8	10	Nim.	...	6-7	☉
20	.440	54.8	53.7	93	.399	NW	8	10	Str.	...	7	☉ during hour.
21	.470	54.8	53.5	92	.389	WNW	8	10	Nim.	...	6-7	☉
22	.471	53.8	53.8	100	.415	NW	8	10	Nim.	...	7	☉
23	.464	54.0	53.9	99	.415	NW	7-8	10	Nim.	...	7-8	☉
Mdt.	.478	54.0	54.2	100	.418	NW	6-7	10	Nim.	...	6	☉
Means.	29.558	54.1	52.5	90.0	.378	...	7.1	9.9	...	...	6.5	

VOYAGE OF THE SCOTIA, 1902-1904.

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Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
APRIL 19, 1904.												
												At noon, lat. 42° 57' S. long. 8° 13' W.
1	29.572	50.2	50.0	99	.358	WSW	5-6	10	Nim.	...	6	●
2	.598	47.4	47.1	98	.319	SW	2-3	10	Nim.	...	5-6	●
3	.606	47.0	46.3	95	.306	SW	2	10	Nim.	...	5-6	●
4	.608	46.1	45.5	96	.298	S	1-2	10	Nim.	...	1	●. Ship labouring heavily.
5	.632	45.7	44.8	94	.287	SSW	1	10	Str.	...	1-2	Swell.
6	.639	45.9	44.4	90	.276	S	1	10	Str.	...	1-2	●
7	.628	45.3	44.1	91	.274	S	1	10	Mist	...	1	●. Swell.
8	.647	45.7	44.0	88	.268	S	1	10	Str.	...	1	Swell.
9	.648	45.0	44.2	94	.280	SE	1	10	Mist	...	1	●. Swell.
10	.603	45.2	44.8	97	.292	E	1	10	Mist	...	1	●
11	.613	45.5	45.0	96	.293	S	1	10	Nim.	...	1	●
12	.591	45.3	44.8	96	.291	S	1	10	Nim.	...	1	●
13	.540	45.6	44.9	95	.291	SE	1-2	10	Nim.	...	2	●
14	.544	45.3	44.9	97	.294	SE	2	10	Nim.	...	1-2	●
15	.541	45.9	45.0	94	.288	SE	2-3	10	Nim.	...	1-2	●
16	.537	45.5	45.0	96	.293	SE	2-3	10	Nim.	...	2	●
17	.544	44.0	44.3	100	.288	SE	2-3	10	Nim.	...	2	●
18	.538	45.9	45.1	95	.290	SE	2-3	10	Nim.	...	2	●
19	.556	45.7	44.8	94	.287	SE	3	10	Nim.	...	2	●
20	.556	46.4	45.6	94	.296	SE	3	10	Nim.	...	2	●
21	.576	46.0	45.1	94	.289	SE	3	10	Nim.	...	2	●
22	.621	46.0	45.0	93	.287	SE	3-4	10	Nim.	...	2-3	●
23	.620	45.0	44.0	92	.275	SE	3-4	10	Nim.	...	2-3	●
Mdt.	.749	44.8	43.8	92	.275	SE	3-4	10	Nim.	...	3	●. Confused swell.
Means.	29.596	45.9	45.1	94.6	.291	...	2.2	10	...	...	2.2	
APRIL 20.												
												At noon, lat. 41° 30' S. long. 9° 55' W.
1	29.761	45.5	44.2	91	.275	SE	3-4	10	Nim.	...	3	●. Confused swell.
2	.779	45.8	44.5	91	.279	SE	3-4	10	Nim.	...	3	●
3	.741	45.8	44.3	89	.274	SE	3-4	10	K. str.	...	3	● during hour. "Confused swell.
4	.619	45.4	44.6	95	.285	SE	4	10	Str.	...	3-4	Confused swell.
5	.637	45.9	44.4	90	.276	SE	4	10	Str.	...	3-4	
6	.629	46.2	45.2	93	.290	E	4	10	Str.	...	3-4	
7	.630	47.6	45.8	88	.286	SE	4	10	Str.	...	3-4	
8	.631	47.0	45.5	90	.287	SE	4	10	Str.	...	3-4	
9	.622	48.0	46.6	90	.299	SE	4	10	Str.	...	2-3	
10	.609	48.1	47.0	92	.308	SE	4-5	10	Nim.	...	2-3	● ∞
11	.578	48.9	47.2	88	.304	E	6	10	Str.	...	4-5	● during hour.
12	.618	49.5	48.4	92	.325	E	5-6	10	Nim.	...	4-5	● ∞
13	.530	50.0	49.0	93	.334	E	4-5	10	Nim.	...	5	●
14	.455	50.2	49.7	97	.351	E	6	10	Nim.	...	5-6	●
15	.429	51.2	50.7	97	.363	E	5-6	10	Nim.	...	6	●
16	.436	52.7	52.0	96	.378	E	4-5	10	Str.	...	5	● during hour.
17	.434	54.5	54.0	96	.410	E	1-2	10	Nim.	...	2	● ∞
18	.438	57.0	56.1	94	.437	NW	0-1	9	Nim.	...	2	● ∞
19	.433	57.3	56.4	94	.442	NW	2	5	K.	...	2	
20	.434	56.9	56.1	95	.439	NW	2	10	Str.	...	2	Stars gleaming.
21	.437	56.3	55.8	97	.439	NW	2-3	10	Nim.	...	2-3	●
22	.450	56.0	55.2	94	.425	NW	3	10	Nim.	...	3	●
23	.443	56.5	55.0	90	.412	NW	2-4	4	K. str.	...	3	g
Mdt.	.477	57.0	54.5	84	.391	NNW	3-4	1	K. str.	...	2-3	Land sighted about 23.30, and ship put about Gough Island.
Means.	29.552	50.8	44.1	92.3	.346	...	3.7	9.1	...	...	3.4	

METEOROLOGICAL OBSERVATIONS MADE DURING THE

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
APRIL 21, 1904.													At Gough Island, lat. 40° 20' S. long. 9° 56' 30" W.
1	29.425	58.4	54.2	75	.367	N	3-6	3	K. str.	...	3	q ² .	
2	.462	57.5	55.2	85	.405	NNW	3-7	3	K.	...	3	q ² .	
3	.439	57.1	54.2	81	.382	NNW	3-6	8	K.	...	3-4	q ⁰ .	
4	.423	56.3	53.0	79	.361	NW	3	10	K. str.	...	3-4		
5	.424	56.4	53.0	79	.359	NW	5	9	K.	...	3-4		
6	.440	57.0	52.6	73	.341	NW	2-4	9	K.	...	3-4	q ∞ over island.	
7	.418	57.0	52.0	70	.327	NW	4-5	8	K.	...	4	q. ∞. Depth 1322 fathoms. Rocks.	
8	.433	56.9	52.2	71	.333	NW	4-5	4	K.	...	4	∞ ∞.	
9	.428	58.0	52.3	68	.325	NW	4-6	5	K.	Cir. K.	4	q. ∞.	
10	.428	57.0	52.1	71	.329	NW	4-6	8	K.	Cir. K.	3-4	q ² ∞.	
11	.444	56.7	53.0	77	.355	NW	4-6	10	K. str.	...	2-3	q ² ∞.	
12	.435	56.5	52.0	72	.333	NW	2-6	8	K.	...	2-3	q ² ∞.	
13	.411	57.1	52.3	72	.333	NW	3-7	6	K.	...	4	q. ∞.	
14	.428	56.2	53.0	80	.362	NW	2-7	8	K. & Nim.	...	4	q ² ∞.	
15	.440	55.2	52.0	80	.347	NW	3-8	7	K.	...	4	q ² ∞. Mist on hills to port.	
16	.453	54.5	52.3	85	.362	NW	3-6	8	Nim.	...	4	q ² ∞. Double ∞. Mist on hills [to port.	
17	.476	54.2	49.8	72	.304	NW	2-6	6	K.	...	2-3	q ² .	
18	.484	53.3	49.0	72	.296	W	4-8	3	K.	...	2-3	q ² . Moon bright. Swell.	
19	.482	54.0	48.4	66	.275	W	4-8	3	K.	...	2-3	q ² .	
20	.456	54.0	50.3	76	.317	W	4-8	2	K.	...	2-3	q ² .	
21	.523	53.0	48.1	70	.279	W	4-9	3	K.	...	2-3	q ² .	
22	.560	53.1	48.3	70	.283	WNW	4-8	3	K.	...	3	q ² .	
23	.556	53.0	48.0	69	.277	W	4-8	3	K. str.	...	3	q ² . Swell.	
Mdt.	.565	52.1	50.0	85	.334	W	3-8	2	K. str.	...	3-4	q ² .	
Means.	29.460	55.6	51.6	74.9	.333	...	4.9	5.8	...	...	3.3		
APRIL 22.													At Gough Island.
1	29.552	52.9	48.8	74	.296	W	4-9	2	K. str.	...	3	q ² . Swell.	
2	.564	53.8	49.7	74	.306	WNW	3-7	2	K. str.	...	3	q ² .	
3	.573	54.0	49.8	73	.306	WNW	3-7	2	K. str.	...	3-4	q ² .	
4	.556	53.9	50.5	78	.324	W	3-6	1	K.	...	2	q ² at 3. Swell.	
5	.543	54.0	49.6	72	.301	W	3-5	1	K.	...	1-2	q ² .	
6	.522	53.3	51.2	85	.348	W	2	2	K.	...	1	q ² .	
7	.524	52.7	50.9	88	.349	WNW	2-3	8	Nim. & K.	Cir.	2	q ² .	
8	.533	54.0	51.8	85	.355	NW	0-1	10	Str.	...	2-3	q ² .	
9	.530	53.7	51.0	82	.338	S	0-1	10	Nim.	...	0	●	
10	.530	53.8	51.0	81	.337	W	0-1	10	Nim.	...	0	● Landed on Gough Island. Weather fine though showery. Yet considerable amount of broken spells of sunshine. Rainbows with showers of which these were on 3 or 4 slight falls during 11 a.m. and 4 p.m. Very heavy rain for 3 hour from 10 to 11 and considerable wind from glen. W. wind dropped to 0-3 sq. at ship than ashore.	
11	.525	54.0	52.0	86	.360	W	1	10	Nim.	...	0	q ∞.	
12	.523	54.2	52.2	86	.361	W	1	8	K.	...	0		
13	.523	54.2	52.2	86	.361	W	1-2	6	K.	...	0		
14	.521	53.8	52.5	91	.378	W	2	5	K.	...	1		
15	.521	53.0	52.0	93	.374	W	2-3	5	K.	...	1		
16	.520	52.8	51.8	93	.372	W	3	5	K.	...	1		
17	.514	52.5	49.0	77	.304	W	3-4	5	Str.	...	1		
18	.513	52.3	48.0	72	.284	SW	2-3	7	K. str.	...	1		
19	.526	51.0	47.5	77	.288	NW	1-2	8	Nim.	...	1		
20	.550	47.8	45.8	86	.283	SW	1-4	5	Str.	...	1	● q ² from 19.15 to 19.45.	
21	.560	47.0	44.8	85	.271	SW	2-5	8	Nim.	...	1	q.	
22	.597	49.4	47.0	84	.293	W	1-6	7	K.	...	1	q ² .	
23	.598	48.8	45.4	77	.266	W	2-8	8	K. & Nim.	...	1-2	q ² .	
Mdt.	.611	49.7	45.6	73	.261	W	2-6	4	K.	...	1-2	q ² .	
Means.	29.543	52.4	49.6	81.6	.322	...	2.8	5.8	...	...	1.2		

VOYAGE OF THE SCOTIA, 1902-1904.

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Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea. 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
APRIL 23, 1904.												
At Gough Island.												
1	29.650	48.2	46.0	85	.283	w	2-5	10	Nim.	...	1-2	● q ² .
2	.669	48.5	46.2	83	.285	sw	1-5	7	K. & K.st.	...	2	q ² . Lower clouds W.
3	.696	48.5	45.6	80	.272	sw	0-2	6	K. & K.st.	...	1-2	q ² . " "
4	.730	48.9	45.3	76	.263	w	0-2	2	K. str	...	1-2	q ² . " "
5	.783	49.2	45.0	72	.253	Var.	0-3	4	K.	...	1	q. Swell.
6	.808	49.1	44.3	69	.240	s, var.	0-4	8	K. & Nim.	...	1	q. " "
7	.854	48.8	44.2	69	.241	s	0-3	7	K.	...	1	q. " Heaving anchor up.
8	.860	49.5	44.0	65	.230	sw	4	5	K.	...	3-4	⊙. " "
9	.894	49.2	44.9	71	.251	sw	3-5	6	K.	...	2-3	⊙. " "
10	.913	49.5	45.2	71	.254	sw	3-4	4	K.	...	2-3	⊙. " "
11	.940	49.0	43.9	67	.233	sw	2-3	7	K.	...	1-2	⊙. " "
12	.948	49.4	44.8	70	.247	sw	2-4	3	K.	...	2	q. ⊙. Swell.
13	.952	49.6	45.6	74	.262	sw	2-5	4	K.	...	2	q. ⊙. " Trawling.
14	.982	49.9	45.3	70	.252	sw	3-4	7	K.	...	2	⊙. " "
15	.980	49.8	44.0	64	.228	sw	3-4	6	Str.	...	4	q. " "
16	30.009	48.8	44.6	72	.249	sw	3-4	6	Str.	...	4	q. " "
17	.017	49.1	45.3	74	.260	sw	1	9	K.	...	0-1	Swell.
18	.012	49.2	44.4	68	.241	sw	2-3	7	Nim.	...	4	● Moon shining.
19	.035	49.3	45.0	71	.252	s	3	8	K.	...	4	
20	.059	48.1	44.7	76	.256	ssw	3	5	K.	...	4	
21	.061	49.0	45.2	74	.259	s	3	9	K.	...	4	
22	.134	49.0	46.9	85	.296	s	3	10	K. str.	...	3	
23	.141	49.0	44.8	72	.251	s	2-4	9	K. str.	...	3	
Mdt.	.068	49.0	44.2	68	.239	s	3	9	K. str.	...	3	
Means.	29.925	49.1	45.0	72.8	.254	...	2.8	6.6	...	...	2.5	Gough Island may be considered to terminate at midnight, when we were about 20 miles from land.

APRIL 24.

At noon,
lat. 39° 58' S. long. 8° 36' W.

1	30.138	49.0	44.1	68	.237	s	2-3	8	K. str.	...	2-3	
2	.142	49.0	44.0	67	.235	s	2-3	6	K. str.	...	2	
3	.142	49.0	44.6	71	.247	s	2-3	6	K. str.	...	2	
4	.110	48.0	45.2	80	.267	s	2	10	K. str.	...	2	
5	.078	48.0	44.6	77	.255	sw	3	2	K. str.	...	2	Swell.
6	.110	48.8	44.8	73	.253	sw	3	6	K. & K. str.	...	2	"
7	.114	48.8	44.1	69	.239	sw	1-2	8	K. & K. str.	...	1	"
8	.107	49.0	44.0	67	.235	sw	1-2	10	K.	...	1	" Land still in sight astern.
9	.138	49.0	44.5	70	.245	s	0-1	9	K.	...	0-1	⊙. Swell. " "
10	.133	50.8	45.5	67	.248	Var. airs	0-1	8	...	Cir. K.	0-1	⊙. " "
11	.106	51.2	46.5	70	.264	Var. airs	0-1	9	...	Cir. K.	0	⊙. " "
12	.117	51.4	46.9	71	.270	nw, var.	0-1	2	...	Cir.	0-1	⊙. " Depth 1807 fathoms. Rock.
13	.092	51.8	47.0	70	.268	N	0-1	0	...	...	0-1	⊙. " "
14	.079	51.0	46.0	68	.255	NNE	1	10	...	Cir.	1	⊙. " Swell.
15	.086	51.9	46.3	66	.253	NNE	1	9	...	Cir str.	1	⊙. " "
16	.070	51.0	46.1	69	.257	NNE	1	8	...	Cir str.	2	⊙. Swell. " "
17	.078	50.5	46.3	73	.266	NE	1	5	...	Cir.	2	⊙. " "
18	.046	50.2	46.1	74	.265	NE	1-2	4	...	Cir & Cir str.	1-2	Swell. " Cum on W. horizon. [bright.
19	.073	50.3	46.5	75	.273	NE	1-2	3	...	Cir str.	1-2	Air very clear. Swell. Moon shining
20	.108	50.2	47.0	79	.284	NE	2-3	2	...	Cir str.	1-2	" " " " "
21	.095	50.1	47.5	82	.297	NE	2-3	2	...	Cir.	1-2	" " " " "
22	.079	50.0	46.6	78	.278	NE	2-3	3	...	Cir. K.	1-2	" " " " "
23	.075	50.0	46.8	79	.282	NE	2	8	...	Cir str.	1-2	" " " " "
Mdt.	.070	50.2	47.0	79	.284	NE	2-3	10	...	Cir str.	1-2	Swell. " A few stars gleaming. "
Means.	30.099	50.0	45.8	72.6	.261	...	1.7	6.2	...	...	1.4	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
APRIL 25, 1904.													At noon, lat. 40° 22' S. long. 5° 45' W.
1	30.050	50.5	47.5	80	.293	NE	3	9	...	Cir. K.	2	Swell.	
2	.032	50.7	48.0	82	.302	NNE	3-4	7	...	Cir. K., Alto K.	2-3	"	
3	.017	50.4	47.8	83	.300	NNE	4	8	...	Cir. K., Alto K.	2-3	"	
4	29.964	50.8	48.0	81	.301	NE	4	10	K. str.	...	3		
5	.970	51.1	48.2	80	.303	NE	4-5	10	K. str.	...	3		
6	.963	51.3	43.3	80	.303	N	4-5	10	K.	...	3		
7	.949	51.8	49.0	81	.313	NNE	4	10	K. str.	...	3		
8	.950	52.0	49.6	84	.325	N	3	10	Str.	...	2-3	Swell.	
9	.942	52.0	50.0	86	.335	N	4	10	K. str.	...	3	"	
10	.939	52.0	50.0	86	.335	N	4	10	Str.	...	3	"	
11	.912	51.9	50.0	87	.336	N	4	10	Str.	...	3	"	
12	.862	52.0	50.0	86	.335	N	4	10	Str.	...	3-4	"	
13	.886	52.9	50.9	87	.346	N	5	10	K. str.	...	3-4	"	
14	.821	52.6	50.0	82	.327	NNE	5	10	Nim. & K.	...	4	●	
15	.845	52.2	51.0	92	.358	NE	5-6	10	Nim.	...	4	●	
16	.812	52.0	51.0	93	.361	NNE	5-6	10	Nim.	...	4	● ⁰	
17	.758	51.2	50.1	93	.348	NNE	6	10	Str.	...	4	● ⁰ during hour.	
18	.685	51.8	51.0	94	.364	N	6	10	Nim.	...	4-5	●	
19	.687	52.0	51.3	95	.369	N	6	10	Nim.	...	4-5	●	
20	.623	51.7	51.3	97	.373	N	6-7	10	Nim.	...	4-5	● ²	
21	.616	51.9	51.4	97	.373	N	6-7	10	Nim.	...	4-5	● ⁰	
22	.538	52.0	52.0	100	.388	NNE	5-6	10	Nim.	...	4-5	● ⁰	
23	.479	53.0	53.0	100	.403	NNE	4-5	10	Nim.	...	4-5	● ⁰	
Mdt.	.476	53.8	53.7	99	.413	NNE	5-6	10	Nim.	...	4-5	● ⁰	
Means.	29.824	51.8	50.1	88.5	.342	...	4.8	9.8	...	...	3.5		
APRIL 26.													At noon. lat. 41° 15' S. long. 2° 38' W.
1	29.475	54.1	54.1	100	.420	NNE	5-6	10	Nim.	...	4-5	●	
2	.443	54.5	54.5	100	.426	N	5-6	10	Nim.	...	4-5	●	
3	.413	54.8	54.8	100	.430	N	5-6	10	Nim.	...	4-5	●	
4	.384	54.6	54.6	100	.427	N	4-5	10	Str.	...	4-5	● during hour.	
5	.396	54.6	54.0	96	.409	NW	5	10	Str.	...	4-5	●	
6	.407	54.2	53.7	97	.406	NW	5-6	10	Str.	...	4-5	●	
7	.424	53.8	53.3	96	.401	NW	5	9	Str.	...	4-5	●	
8	.457	54.0	53.6	97	.406	N	4	10	Str.	...	4-5	●	
9	.463	54.0	53.2	94	.394	NW	6	10	Str.	...	4-5	●	
10	.474	51.6	50.6	93	.356	NW	6	9	K. str.	...	4-5	●	
11	.510	51.8	50.0	87	.338	NW	6	9	K.	...	5	●	
12	.520	51.1	50.0	92	.347	NW	6	9	K.	...	4-5	●	
13	.534	51.0	49.0	86	.323	W	5-6	10	Str.	...	4	●	
14	.580	50.5	48.7	88	.322	W	5-6	10	Str.	...	4	●	
15	.616	50.0	48.0	86	.309	W	5-6	10	Str.	...	4	●	
16	.636	49.8	47.3	83	.295	SW	5-6	10	K.	...	4	●	
17	.675	48.8	46.6	84	.292	SW	5	10	Str.	...	4	●	
18	.682	48.0	46.9	92	.307	SW	5	10	Str.	...	4	●	
19	.747	48.2	46.3	87	.290	SW	5	10	Nim.	...	4	▲	
20	.809	47.8	46.0	87	.288	SW	5	10	Str.	...	4	●	
21	.814	47.2	45.9	91	.294	SW	5	10	Str.	...	4	●	
22	.833	47.7	44.6	79	.259	SW	4-5	9	K. str.	...	3-4	●	
23	.862	47.0	48.5	76	.243	SW	4-5	7	K.	...	3-4	●	
Mdt.	.887	46.5	42.8	75	.234	SW	3-4	6	K.	...	3-4	●	
Means.	29.585	51.1	49.7	90.2	.342	...	5.2	9.5	...	...	4.2		

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea. 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
APRIL 27, 1904.													At noon, lat. 40° 33' S. long. 0° 7' E.
1	29.890	46.4	43.2	78	.244	sw	3-4	6	K.	...	3-4		
2	.933	46.1	42.4	75	.232	sw	2-4	4	K.	...	3-4	Moon gleaming.	
3	.934	46.1	42.2	73	.228	sw	2-3	3	K.	...	3-4	" "	
4	.936	46.0	42.1	74	.227	w	3	4	K. str.	...	3-4		
5	.921	46.3	42.8	76	.237	w	3	2	K. str.	...	3-4		
6	.938	45.9	42.2	74	.230	wsW	1-2	7	K.	...	3-4		
7	.938	46.1	42.9	77	.241	wsW	1	2	...	Cir. K.	3-4	☉	
8	30.022	46.7	43.0	75	.236	sw	0-1	8	K.	...	3-4	☉	
9	.054	48.9	44.8	73	.252	sw	1	8	K. & Str.	...	1-2	☉ Air very clear.	
10	.056	47.5	43.4	72	.236	sw. air	0-1	5	K. & Str.	...	1	☉	
11	.056	48.0	44.0	73	.243	sw. air	0-1	4	K. & Str.	...	1	☉ Sounding 2543 fathoms, no bottom.	
12	.041	50.2	45.6	71	.255	Calm	0	3	K. & Str.	...	1-2	☉	
13	.024	50.0	45.9	73	.263	Calm	0	3	K.	...	0-1	☉ Swell.	
14	.033	51.3	46.6	71	.265	Calm	0	4	K.	...	0	☉ Swell slight.	
15	.018	49.8	45.5	72	.258	Var.	0-1	7	...	Cir.	0-1	☉ Air very clear. Swell W.	
16	.017	49.0	45.3	75	.261	Calm	0	10	Str.	...	0	☉ " " " "	
17	.031	48.2	44.8	77	.257	N. air	0	7	Str.	Cir. K.	0-1	☉ Swell.	
18	.019	48.5	45.2	77	.263	NE	0-1	4	...	Cir. K.	0-1	☉ Air very clear. Swell.	
19	.037	48.1	45.9	84	.282	NE	0-1	10	Str.	...	0-1	☉ Moon gleaming. "	
20	.043	49.3	46.0	77	.273	E	0-1	10	Str.	...	0-1	☉ " "	
21	.017	49.6	46.8	82	.237	E	1	10	Str.	...	0-1	☉ " "	
22	.047	50.1	47.5	82	.297	NE	1-2	10	Str.	...	0-1	☉ Moon gleaming. Swell.	
23	.038	49.9	47.3	83	.294	NE	1-2	10	Str.	...	0-1	☉ Swell.	
Mdt.	.022	51.0	48.8	85	.318	E	2	10	Str.	...	1-2	☉ "	
Means.	30.003	48.3	44.8	76.2	.257	...	1.2	6.3	...	...	1.6		

APRIL 28.												At noon, lat. 40° 08' S. long. 1° 50' E.
1	30.012	51.2	49.2	86	.325	ENE	2	10	Str.	...	1-2	☉ Swell. Moon gleaming.
2	29.987	50.6	50.3	98	.361	ENE	2-3	10	Mist	...	1-2	☉
3	.964	51.4	51.0	97	.369	ENE	2-3	10	Mist	...	1-2	☉
4	.921	52.0	51.9	99	.385	ENE	1	10	Mist	...	1	☉
5	.913	52.3	52.2	99	.390	ENE	2	10	Mist	...	1	☉
6	.891	52.9	52.7	99	.396	ENE	2	10	Mist	...	1	☉
7	.884	53.0	52.8	99	.397	NE	2	10	Mist	...	1	☉
8	.880	53.2	53.0	99	.400	NE	1-2	10	Mist	...	2	☉
9	.871	53.8	53.7	99	.413	NNE	0-1	10	Nim.	...	1-2	☉
10	.875	54.0	54.0	100	.418	NNE	1-2	10	Nim.	...	1-2	☉
11	.855	53.9	53.5	98	.405	NNE	1-2	10	Nim.	...	1-2	☉
12	.835	54.8	54.5	98	.422	NNE	1-2	10	K. str.	...	1-2	☉
13	.810	54.1	54.0	99	.416	NE	0-1	10	Mist	...	0-1	☉
14	.796	54.8	54.6	98	.424	N	1-2	10	Mist	...	1	☉ Swell.
15	.796	54.7	54.5	99	.423	NE	0-1	10	Mist	...	1	☉ " "
16	.776	55.1	55.0	99	.432	N	1	10	Mist	...	1	☉ " "
17	.766	54.5	54.2	97	.416	N	1	10	Mist	...	1	☉ Trawl coming in.
18	.761	55.0	55.2	100	.433	Calm	0	10	Nim.	...	1	☉
19	.756	54.5	54.2	97	.416	NNE	1	10	Nim. & Mist	...	1	☉
20	.739	54.6	54.2	97	.415	NE	0	10	Nim.	...	0	☉
21	.732	53.0	53.1	100	.403	SW	0	10	Nim.	...	0	☉
22	.751	51.9	51.5	93	.376	SW	1-2	10	Nim.	...	0	☉
23	.733	50.9	50.4	97	.359	S	3-4	10	Nim.	...	1-2	☉
Mdt.	.717	50.7	50.0	95	.352	SW	2-3	10	Nim.	...	1-2	☉
Means.	29.834	53.2	52.9	97.8	.398	...	1.4	10.0	...	...	1.1	

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
APRIL 29, 1904.												
At noon, lat. 39° 48' S. long. 2° 33' E.												
1	29.713	49.9	49.4	97	.346	SW	2-3	10	Str.	...	2	● during hour.
2	.710	50.0	48.8	92	.329	SW	3-4	10	Str.	...	2-3	
3	.727	49.4	47.9	90	.315	SW	3	10	Str.	...	2-3	
4	.753	49.0	46.8	85	.294	SW	3-4	10	Str.	...	2-3	
5	.785	48.0	46.6	90	.299	SW	3-4	9	K.	...	2-3	
6	.791	49.8	47.2	82	.293	SW	3-4	10	K.	...	2	
7	.828	50.7	48.2	83	.307	SW	3	10	K.	...	2	
8	.854	50.8	48.6	85	.316	SW	2	9	...	Cir. K.	1-2	
9	.879	50.5	49.2	90	.333	WSW	1-2	2	...	Cir. K.	2	⊙. Trawl just lowered.
10	.895	52.0	49.5	83	.323	WSW	2	9	K.	...	3	
11	.909	52.5	50.3	85	.336	W	1-2	10	...	Cir. K.	3	
12	.901	53.0	50.5	83	.335	W	1-2	0	...	...	1-2	
13	.912	53.8	51.0	81	.337	NW	2-3	7	K.	Cir.	1-2	
14	.880	54.5	52.0	83	.354	SW	3-4	2	Str.	Cir.	1-2	
15	.875	54.0	52.6	90	.377	NW	2-3	5	...	Cir & Cir str.	1-2	
16	.870	54.0	52.0	86	.360	NW	2-3	3	...	Cir.	2	
17	.910	54.0	52.0	86	.360	N	2-3	6	K. str.	...	1-2	⊙. Str. on horizon to S. and S.W.
18	.885	54.0	52.2	87	.366	NNW	2-3	4	K.	...	1	Moon gleaming.
19	.894	53.7	52.2	89	.370	N	3	7	K.	...	1-2	" "
20	.893	53.3	52.3	93	.379	N	2-3	10	K. str.	...	1	" "
21	.883	53.0	52.2	94	.380	NNW	2-3	10	Nim.	...	1	●. Moon gleaming.
22	.899	53.1	52.2	93	.379	N	1-2	9	K. str.	...	1-2	∞. " "
23	.897	52.6	51.4	92	.364	N	0-1	5	...	Cir.	1-2	Faint lunar halo.
Mdt.	.895	52.0	51.0	93	.361	W	1-2	9	...	Cir.	1-2	" "
Means.	29.852	52.0	50.3	88.0	.342	...	2.4	7.3	...	...	1.8	
APRIL 30.												
At noon, lat. 39° 27' S. long. 5° 50' E.												
1	29.905	51.5	50.2	90	.346	W	2-3	10	Scud	...	1-2	Moon gleaming. ⊕
2	.915	51.0	49.8	92	.343	W	2	10	Scud	...	2	"
3	.912	51.5	49.0	83	.316	W	2-3	10	K	...	2	"
4	.890	52.0	48.0	74	.287	W	3	8	K	...	2	"
5	.908	52.1	48.0	73	.286	W	3	9	K	...	2	"
6	.920	51.9	47.3	71	.274	W	3	1	K	...	2	"
7	.917	52.0	47.6	72	.279	W	3	1	K	...	2	⊙
8	.942	52.9	48.9	74	.299	WNW	3	0	...	...	4	⊙
9	.955	53.3	49.8	78	.315	W	3-4	3	...	Cir. K.	3-4	⊙
10	.953	54.0	50.1	75	.312	W	3-4	3	...	Cir & Cir. K.	3-4	⊙
11	.959	54.0	50.5	77	.322	W	3-4	2	...	Cir.	4	⊙
12	.954	54.2	50.9	78	.330	WNW	4	10	...	Cir str.	4	⊙. Sounding 2900 fathoms.
13	.944	54.3	51.2	79	.336	NW	2-3	9	...	Cir & Cir str.	2	⊙
14	(.949)	(54.5)	(51.0)	(77)	(.329)	(NW)	(2-3)	(8)	...	(Cir & Cir str.)	(2)	⊙. Observation interpolated.
15	.955	54.8	51.8	81	.348	NW	3	8	...	Cir & Cir str.	2	⊙
16	.977	55.0	52.0	81	.349	NW	1-2	7	...	Cir. K.	2	⊙
17	.940	54.6	52.3	85	.361	NW	2	2	...	Cir str.	1-2	⊙
18	.953	54.6	52.6	87	.370	NW	2	1	...	Cir.	1-2	Moon bright.
19	.978	54.1	52.2	86	.365	NW	2-3	0	...	...	1-2	"
20	30.026	54.0	52.3	88	.366	NW	2-3	3	...	Cir.	1-2	"
21	29.989	54.1	52.7	90	.379	NW	2-3	9	...	Cir. K.	1-2	"
22	.977	54.9	53.0	88	.376	NW	2-3	10	...	Cir. K.	1-2	"
23	.983	55.7	53.4	85	.379	NNW	1-3	8	...	Alto K.	1-2	Double ⊕.
Mdt.	.986	56.0	53.7	85	.383	N	1-2	9	...	Cir. K.	1-2	Moon gleaming faintly.
Means.	29.949	53.6	50.8	81.2	.336	...	2.6	5.9	...	...	2.2	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
MAY 1, 1904.												
At noon, lat. 39° 25' S. long. 10° 25' E.												
1	29.967	56.0	53.9	86	.388	NW	3	8	...	Alto K.	2-3	☾. Moon gleaming.
2	.962	56.6	54.0	83	.383	NW	3-4	3	Scud	Cir & Alto K.	3	Moon gleaming.
3	.942	56.6	54.0	83	.383	NW	3-4	0	...	...	3	☾. Moon gleaming.
4	.922	56.8	54.1	83	.383	NW	4	6	...	Cir.	3	☾.
5	.917	57.0	54.8	86	.399	NW	4-5	7	...	Cir.	3-4	Moon gleaming. Upper clouds W.
6	.900	57.0	54.9	86	.402	NW	4-5	4	...	Cir.	3-4	
7	.904	57.6	55.0	83	.398	NW	5	8	Scud	Cir K.	3-4	☉ gleaming. Sunrise 6.30. Upper
8	.925	58.0	55.0	81	.393	NW	5-6	9	...	Cir. K.	3	Cir str. round horizon. [clouds W.
9	.922	58.2	55.3	82	.398	NW	5	9	...	Cir K, Cir str.	3-4	☉ gleaming.
10	.908	58.3	55.2	80	.395	NW	5	9	K. str.	...	3-4	"
11	.913	58.8	55.3	79	.391	NW	5-6	10	K. str.	...	4	"
12	.884	58.0	55.9	86	.418	NW	5-6	10	K. str.	...	4	
13	.877	57.4	56.2	92	.435	W	5	10	K. str.	...	4	☉ gleaming. Sounding.
14	.860	58.2	56.8	91	.442	W	5	10	K. str.	...	4	"
15	.874	58.3	56.9	90	.444	W	5	10	K. str.	...	4	"
16	.875	58.2	56.5	89	.433	W	5	8	K. str.	...	4	"
17	.905	57.0	56.0	93	.434	W	5	7	...	Cir. K.	4	"
18	.924	58.0	56.1	88	.424	W	4	0	...	...	3-4	
19	.965	57.8	56.0	88	.424	W	3-4	10	K. str.	...	3-4	
20	.986	58.2	56.4	88	.430	W	3-4	10	Str.	...	3	
21	30.004	58.7	56.9	88	.438	W	3-4	10	K. str.	...	3	
22	.015	59.0	57.2	89	.442	W	3-4	10	K. str.	...	3-4	Swell.
23	.020	59.3	57.0	86	.432	W	3-4	10	K. str.	...	3-4	"
Mdt.	.030	59.7	57.1	85	.430	W	3-4	10	K. str.	...	3-4	" Moon gleaming.
Means.	29.933	57.9	55.7	86.0	.414	...	3.3	7.8	...	...	3.5	
MAY 2.												
At noon, lat. 38° 06' S. long. 14° 32' E.												
1	30.035	59.0	56.8	87	.430	W	3	7	K.	Cir. K.	3	Moon and stars shining. Swell.
2	.047	59.0	57.0	88	.436	W	3	5	K.	...	3	"
3	.061	58.7	57.0	89	.440	W	3-4	10	Str.	...	3-4	d ● before hour. "
4	.070	58.0	57.0	93	.451	W	4	9	K.	...	3-4	"
5	.076	58.8	57.0	89	.439	W	4	7	K.	...	3-4	Moon shining.
6	.081	58.9	56.5	85	.423	W	4-5	10	K.	...	3-4	
7	.101	58.4	57.0	91	.445	W	3	9	Nim. & K.	...	3-4	●
8	.104	58.1	56.3	88	.429	W	3	8	K. str.	...	3-4	☉. Double (7.30.
9	.146	57.7	56.3	91	.434	W	2-3	8	K.	...	3-4	☉. (between hour.
10	.159	58.9	56.6	86	.426	W	3	6	K.	...	3	☉. Cape Town Mean Time now taken.
11	.167	57.9	57.1	95	.455	W	3	10	Nim.	...	3	●. ☉. (at hour.
12	.171	58.0	56.7	91	.442	SW	3-4	9	K. & Nim.	...	3	●. ☉. ("
13	.165	59.8	55.8	77	.393	WSW	3	8	K.	...	3-4	☉
14	.164	59.9	55.2	72	.375	WSW	3	10	Str.	...	3-4	
15	.178	59.6	55.1	74	.376	WSW	3	10	Str. K.	...	3-4	
16	.176	59.9	55.5	74	.384	SW	2	10	K.	...	2-3	
17	.202	60.2	55.5	73	.380	SW	2	10	Str. K.	...	2-3	
18	.221	60.0	55.0	71	.369	SW	1-2	10	K. str.	...	1-2	Swell.
19	.245	59.9	54.4	68	.355	SW	1-2	10	Str.	...	1-2	
20	.263	60.3	55.5	73	.379	SW	0-1	10	Str.	...	1	
21	.268	60.4	55.3	71	.373	SW	0	9	K. str.	...	1	Moon gleaming faintly. Patches of blue.
22	.266	61.0	55.8	71	.378	W	1-2	10	K.	...	2	
23	.271	60.7	56.0	73	.387	SW	0-1	10	K. str.	...	1-2	Moon gleaming. Patches of blue.
Mdt.	.278	61.0	56.0	72	.383	Calm	0	10	K. str.	...	1-2	" "
Means.	30.163	59.3	56.1	80.9	.408	...	2.4	9.0	...	...	2.7	

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
MAY 3, 1904.													At noon, lat. 35° 37' S. long. 15° 03' E.
1	30.274	61.0	56.0	72	.388	S	0-1	10	K. str.	...	0-1	Moon gleaming.	
2	.279	60.8	56.0	73	.385	S	0-1	10	K. str.	...	0-1		
3	.269	60.9	56.1	73	.388	S	0-1	10	K. str.	...	0-1		
4	.251	60.9	56.1	73	.388	SE	1	10	K. str.	...	0-1		
5	.257	60.9	55.9	72	.382	WSW, var.	0-1	10	K.	...	0-1		
6	.262	61.0	56.8	76	.405	Var.	0-1	10	K.	...	0-1		
7	.266	61.3	55.9	70	.378	SE, var.	0-1	9	K.	...	0-1		
8	.268	61.8	57.0	73	.401	Var.	0	9	K.	...	0		
9	.292	62.2	56.7	70	.389	E	2	8	K. str.	...	0-1		
10	.293	62.6	57.2	70	.398	ENE	1-2	9	K. str.	...	1		
11	.291	62.3	56.8	70	.391	E	2	9	K. str.	...	1		
12	.295	62.5	57.6	72	.410	E	2	9	K. str.	...	1		
13	.231	62.2	57.0	71	.397	E	2	9	K. str.	...	1		
14	.228	62.0	57.0	72	.399	ESE	2-3	8	K.	...	1-2	☉. W. and S. swell.	
15	.226	62.1	57.8	75	.420	SE	2-3	9	K.	...	1-2		
16	.207	62.0	57.0	72	.399	SE	2-3	9	K.	...	1-2	☉ [same as Observatory Time. Ship's clock set to Cape Town Mean Time	
17	.207	62.0	57.9	77	.424	ESE	2-3	2	K.	...	1-2		
18	.216	61.8	57.7	77	.421	ESE	3-4	8	K.	...	2	Stars gleaming.	
19	.212	62.3	58.0	75	.423	SE	3-4	10	K. str.	...	1-2	" "	
20	.211	62.2	57.9	76	.422	SE	3-4	10	Str.	...	2		
21	.206	62.8	58.7	77	.437	SE	3-4	9	K. str.	...	2-3	" "	
22	.189	62.5	58.7	78	.440	SE	3-4	4	K.	...	2-3		
23	.181	62.7	58.8	77	.441	ESE	3	8	K.	...	2-3	Moon gleaming. " "	
Mdt.	.171	62.9	59.0	77	.444	ESE	4	10	K. str.	...	2-3		
Means.	30.241	61.9	57.2	73.7	.407	...	2.0	8.7	...	...	1.2		
MAY 4.													At noon, lat. 34° 58' S. long. 17° 00' E.
1	30.157	63.0	59.0	77	.443	SE	3	9	K. str.	...	2-3	Moon gleaming.	
2	.135	62.7	59.4	80	.459	SE	3	10	K. str.	...	2-3		
3	.117	62.5	59.3	81	.458	SE	3	10	Str.	...	2-3	" "	
4	.098	62.2	58.9	81	.450	SE	3	9	K.	...	2-3		
5	.081	62.5	58.3	76	.429	S	3	9	K.	...	2-8	☉ Swell from E.S.E.	
6	.059	62.5	59.5	82	.465	SE	3	9	K.	...	2-3		
7	.063	63.0	60.1	83	.477	SE	3	7	K.	Cir.	3		
8	.078	63.2	60.4	83	.484	SE	3-4	7	K. str.	...	2-3		
9	.105	63.8	60.8	83	.490	SE	3-4	8	K.	...	2-3	☉	
10	.114	64.0	61.0	82	.492	SE	3-4	7	K. str.	...	3		
11	.074	64.1	61.3	84	.501	SE	2	6	K. str.	Cir.	1	☉	
12	.048	64.1	61.6	86	.511	SE	3-4	4	K.	Cir str.	3		
13	.018	64.0	61.9	87	.522	ESE	2-3	1	...	Cir.	1-2	☉	
14	.010	68.1	63.4	74	.512	ESE	2-3	1	...	Cir.	1-2		
15	.004	67.0	63.3	80	.525	ESE	2-3	0	...	0	1-2	☉	
16	29.996	66.0	63.0	83	.529	ESE	2-3	5	K.	Cir.	1-2		
17	30.004	63.3	61.8	91	.529	ESE	2-3	8	K.	...	1-2	☉ Moon gleaming.	
18	.007	63.3	61.8	91	.529	ESE	2-3	7	K.	...	1-2		
19	29.998	62.7	61.5	93	.528	ESE	2-3	0	...	0	1-2	☉	
20	.989	62.2	60.9	92	.514	ESE	2-3	3	...	Cir.	1-2		
21	.967	61.2	60.2	94	.507	ESE	2-3	6	...	Cir.	1-2	☉	
22	.938	60.7	60.0	96	.507	E	2-3	0	...	0	2		
23	.939	58.0	58.0	100	.482	E	2	10	Mist	...	2	☉☉☉ Moon gleaming.	
Mdt.	.924	58.0	58.0	100	.482	E	1-2	10	Mist	...	1-2		
Means.	30.030	63.0	60.6	85.8	.493	...	2.7	6.1	...	...	2.0		

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
MAY 5, 1904. Off Cape Peninsula.												
4	29.914	58.8	57.8	95	.461	w	1-2	8	K.	...	1	☼ ² . Thick mist has just passed over, and after being calm, light airs sprung up at 3.30. Moon gleaming.
5	.910	60.4	58.9	91	.476	w	2	8	K.	...	0-1	Moon bright.
6	.908	61.0	59.5	91	.487	w	1	9	K.	...	0-1	Land just sighted right ahead.
8	.949	61.5	59.0	85	.463	NNW	1	7	K. str.	...	0-1	☼
12	.964	60.1	58.9	92	.481	N	3	9	K.	...	1-2	☼ ² ☼. Cape bearing true E.
16	.973	60.2	59.0	93	.482	NW	2	10	K.	...	1	☼ ²
20	30.008	59.9	57.2	84	.430	NW	2-3	10	K. str.	...	0	Weather been much the same since 16 hours. Cape Colony time.
MAY 6. At Table Bay.												
6	29.960	58.4	57.2	92	.451	Calm	0	10	Nim.	...	0	●. Overcast; light airs and calm since 20 hours last night. Occasional flashes of lightning over Table Mountain between 20 and 21 hours yesterday.
8	.986	58.0	56.0	87	.421	SE	0-1	10	Nim.	..	0	● 3 hours to-day; began to drizzle and misty. Clock put ahead 29 minutes to local time = time of 30th Meridian. 12 noon local time = 10 a.m. Greenwich.
MAY 8. At Table Bay.												
9	30.097	55.3	53.8	90	.394	NNW	1-2	9	K.	Cir.	...	Nimbus over Table Mountain.
20	.121	57.2	55.0	86	.403	N	2	3	K.	...	...	
MAY 9. At Table Bay.												
8	30.094	56.5	55.8	96	.436	NW	2-3	8	K. & str.	...	...	☼. Clouds over hills all round.
9	.112	56.8	55.8	94	.432	N	1-2	10	Str.	...	...	Surrounding hills obscured in mist.
MAY 14. At Table Bay.												
8.30	30.239	56.8	56.2	95	.443	Calm	0	10	Nim.	...	...	☼
MAY 15. At Table Bay.												
8.30	30.108	58.3	57.6	95	.465	NW	1-2	10	Str.	...	...	Mist on surrounding hills.
MAY 18. At Table Bay.												
18	30.096	60.4	57.0	80	.418	w airs	0-1	0	...	..	...	Considerable swell.
MAY 20. At Table Bay.												
8.30	30.158	57.5	57.0	96	.458	Calm	0	10	K. str.	...	...	∞
MAY 22. At Saldanha Bay, lat. 31° 38' S. long. 15° 15' W.												
8.30	30.167	62.2	58.8	80	.447	SE	3-4	3	K.	...	3	☼
12.46	.151	62.8	59.4	80	.458	SE	4	2	K.	...	3-4	☼
16	.106	62.3	60.0	86	.483	SE	5	2	K.	...	4	∞

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
MAY 23, 1904.													At noon, lat. 30° 05' S. long. 12° 35' E.
8	30.159	62.1	58.8	80	.449	SE	3-4	8	K.	...	3	☉	
12	.176	63.0	59.2	78	.449	SE	4	7	K.	...	3	●	
16	.167	63.0	59.2	78	.449	SE	3	5	K.	...	2-3		
20	.206	63.0	59.1	78	.446	SE	4	9	K.	...	3-4		
Mdt.	.210	63.2	59.0	76	.441	SE	2-3	10	K. str.	...	2-3	Moon gleaming. [or overcast. Sky during the watch more or less cloudy	
MAY 24.													At noon, lat. 28° 19' S. long. 9° 56' E.
4	30.188	62.8	58.0	73	.417	SE	2	1	Str.	...	2		
8	.199	63.0	58.8	76	.437	SE	2	4	K. K. str.	Cir.	2		
12	.202	64.0	60.4	79	.473	SE	3	8	...	Cir.	2-3		
20	.207	64.0	60.7	81	.483	SSE	2	9	K. K. str.	...	3	☾ gleaming.	
24	.219	63.8	60.3	80	.474	SE	3	10	Haze	...	3	∞	
MAY 25.													At noon, lat. 26° 12' S. long. 7° 05' E.
4	30.162	63.7	60.7	82	.487	SE	3-4	10	Str.	...	3		
8	.224	63.8	61.0	84	.495	SE	4	9	K.	...	3	S.W. swell.	
12	.222	64.4	61.9	85	.516	SSE	4-5	9	K.	...	3		
16	.202	64.3	61.0	81	.488	SSE	5	9	K.	...	4		
20	.232	64.0	60.2	78	.467	SE	3-4	8	Str.	...	3-4		
24	.242	63.0	60.5	85	.490	SE	3-5	6	K.	...	3		
MAY 26.													At noon, lat. 24° 14' S. long. 4° 32' E.
4	30.190	63.8	60.2	79	.470	SE	4	2	K.	...	3		
8	.226	63.8	60.6	82	.483	SE	5	8	K.	...	4		
12	.221	65.0	62.0	83	.510	SE	5	7	K.	...	4		
21.30	.211	64.5	62.9	90	.549	SSE	4	7	K.	...	3-4		
24	.193	64.3	61.9	86	.518	SE	3-4	9	K.	...	3-4		
MAY 27.													At noon, lat. 22° 23' S. long. 1° 42' E.
4	30.164	64.7	62.0	84	.514	SE	3	2	K.	...	3		
8	.220	65.2	62.2	83	.514	SE	3-4	9	K.	...	3		
12.20	.194	67.1	63.7	81	.538	SE	4	7	K.	...	3		
16	.147	67.3	64.2	82	.551	ESE	2-3	8	K.	...	2-3		
20	.187	67.0	64.2	84	.556	ESE	2-3	8	K.	...	3		
24	.179	67.0	64.1	84	.553	ESE	2	9	K.	...	2-3		
MAY 28.													At noon, lat. 19° 45' S. long. 0° 35' W.
4	30.134	66.2	63.3	84	.537	ESE	1-2	9	K.	...	2		
8	.172	66.4	63.7	85	.548	ESE	2	9	K.	...	2		
12	.152	68.0	64.2	79	.541	ESE	1-2	10	K.	...	2-3		
16	.092	68.2	64.9	82	.563	SE	2	9	K.	...	1-2		
21	.127	67.4	64.1	82	.547	ESE	1-2	10	K.	...	1		
24	.105	67.2	64.0	82	.546	ESE	1	9	K.	...	1-2		

VOYAGE OF THE SCOTIA, 1902-1904.

99

Hour.	Bar. at 32' and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.		
MAY 29, 1904.											At noon, lat. 17° 25' S. long. 2° 34' W.
4	30.080	67.2	63.5	80	.529	ESE	1-2	10	K. str.	...	1-2
8	.132	68.0	63.8	77	.527	ESE	0-1	6	K.	...	0-1
12	.131	72.0	66.0	69	.547	SE	0-1	8	K.	...	0-1
16	.087	69.2	65.0	77	.549	SE	1-2	7	K.	...	1
20	.131	68.9	64.0	73	.519	SE	1-2	9	K.	...	1
24	.131	69.0	63.8	72	.511	SE	1	10	K.	...	1
MAY 30.											Off St Helena, lat. 15° 54' S. long. 4° 59' W.
4	30.096	68.4	63.4	73	.508	SE	1	9	K.	...	1
8	.158	69.4	63.4	69	.494	SE	1	8	K.	...	0-1
12	.151	71.3	64.7	67	.513	SSE	1	8	K.	...	0 1
16	.122	70.2	65.0	72	.538	S	1-2	9	K. str.	...	2
JUNE 2.											At St Helena.
16.15	30.116	70.8	63.9	66	.495	E	2	9	K.	...	0-1
20	.155	70.0	65.4	75	.555	E	1-2	9	K. str.	...	1-2
24	.129	70.0	64.5	71	.525	ESE	2	10	K. K. str.	...	1-2
JUNE 3.											At noon, lat. 14° 31' S. long. 7° 05' W.
4	30.107	69.5	64.3	73	.522	E	1	9	K.	...	1
8	.134	71.0	64.9	69	.523	ESE	3	9	K.	...	2
12.20	.135	72.0	64.0	61	.483	ESE	2	9	K.	...	2
16	.097	71.7	64.3	63	.496	SE	1-2	9	K.	...	1
20	.337	71.3	64.9	68	.520	SE	1-2	2	K. str.	...	1-2
24	.116	71.6	65.4	69	.533	ESE	2	9	K.	...	1-2
JUNE 4.											At noon, lat. 12° 40' S. long. 9° 06' W.
4	30.082	71.2	63.0	60	.462	SE	1-2	10	K.	...	2
8	.136	72.1	64.9	65	.510	S	2	10	K.	...	1-2
12.25	.131	73.0	65.3	63	.512	S	1	9	K.	...	1
16	.069	72.3	65.4	66	.523	SSE	2	0	...	...	1-2
20	.119	72.0	66.1	70	.550	SSE	1-2	0	...	...	1
24	.108	72.9	65.9	66	.533	SE	2	10	K. str.	...	2
JUNE 5.											At noon, lat. 10° 46' S. long. 11° 12' W.
4	30.072	72.1	65.6	68	.533	SE	1-2	10	K.	...	1-2
8	.130	73.3	65.8	64	.525	SSE	2	9	K.	...	1-2
12	.132	75.0	67.5	64	.559	SSE	2-3	2	0	Cir K.	2
16.8	.081	74.8	68.1	67	.582	SSE	2	2	K.	...	1-2
20	.141	74.9	68.9	70	.610	SSE	1-2	2	K.	...	1-2
24	.126	74.9	69.8	74	.644	SE	1-2	8	K. str.	...	1-2
JUNE 6.											At noon, lat. 8° 51' S. long. 13° 02' W.
4	30.101	74.8	69.4	73	.631	ESE	2	7	K.	...	1-2
8	.144	75.2	70.9	78	.683	SSE	3	9	K.	...	2
12	.139	77.5	71.8	72	.681	ESE	3	2	0	Cir K.	2
16	.085	76.7	71.7	75	.691	SSE	0-1	2	K.	Cir, Cir K.	2
20	.140	76.5	72.0	77	.705	SSE	2-3	2	K.	...	1-2
24	.133	76.8	72.9	81	.739	SSE	2	8	K. str.	...	2
											●°. Showers before 4 a.m. Looks showery.
											Passing ● showers.

Hour.	Bar. at 32 and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
JUNE 7, 1904.												At Ascension. lat. 7° 56' S. long. 14° 25' W.
4	30.082	77.0	71.4	73	.674	SE	1-2	...	0	...	2	∞° over land. 1.30 and 4.30 few drops ●.
8	.142	78.3	71.8	69	.669	SE	2-3	6	K.	...	0-1	
22	.126	76.6	70.3	70	.637	SE	3	...	0	...	1	
JUNE 9.												At Ascension.
8	30.139	76.2	...	...	...	SE	3-4	7	...	Cir. K.	...	
JUNE 10.												At noon, lat. 7° 36' S. long. 14° 33' W.
12	30.100	77.9	73.5	78	.746	E	4	9	0	Cir. K.	3	
16		77.7	73.7	80	.758	E	4	10	...	Cir. K.	3	
21	.117	77.9	73.8	79	.759	SSE	2-3	8	K.	...	2-3	
24	.068	77.8	73.4	78	.743	ESE	2-3	10	Str.	...	2	
JUNE 11.												At noon, lat. 4° 47' S. long. 15° 47' W.
4	30.052	77.2	73.2	79	.745	SE	2	0	...	...	2	3a. Brilliant meteorite.
8	.087	78.0	74.0	79	.765	ESE	3	1	K.	...	2	
12	.074	78.4	74.8	81	.795	ESE	3	6	K.	...	2-3	
16	.019	77.3	74.2	83	.787	E	3	6	K.	...	2-3	
20.15	.086	76.9	73.8	83	.777	E	2-3	6	K.	...	2	
24	.084	76.7	73.8	84	.780	ESE	1-2	1	K.	...	2	
JUNE 12.												At noon, lat. 2° 46' S. long. 17° 24' W.
4	30.034	76.0	73.4	86	.774	E	1-2	2	K.	...	2	Lower clouds moving S.E. Slight drizzle or heavy dew 8.30.
8	.085	77.0	74.0	84	.783	E	2	0	...	...	1-2	
12	.082	77.5	74.7	85	.806	ESE	2-3	6	K.	...	2	
16	.019	76.4	74.0	87	.794	ESE	3-4	2	K.	...	2-3	
20.2	.047	75.9	73.1	85	.763	SE	3-4	2	K.	...	2-3	
24	.076	75.7	73.2	86	.770	E	2	1	K.	...	2	
JUNE 13.												At noon, lat. 0° 15' S. long. 18° 32' W.
4	30.004	75.2	73.0	88	.770	E	1-2	0	...	...	1-2	
8	.080	75.6	73.0	86	.763	E	2	9	...	Cir. K.	1	
12.10	.070	76.9	73.0	79	.741	E	0-1	7	...	Cir. K.	1-2	
16	.021	77.8	73.9	81	.765	E	0-1	2	0	Cir.	0-1	
20	.072	76.0	73.0	84	.756	E	0-1	9	K.	...	0-1	
24	.045	76.8	73.2	81	.751	E	1-2	1	K.	...	1	
JUNE 14.												At noon, lat. 2° 09' N. long. 19° 26' W.
4	30.008	77.0	72.8	78	.731	E	2	1	K.	...	1-2	13.5 to 13.10. ●° shower. [clouds moving S.E. ● 9.30-10p. < up to 11p. Lower
8	.038	77.8	73.9	81	.765	SE	1-2	7	K.	...	2	
12	.057	79.0	74.1	76	.753	ESE	3	8	K.	...	2-3	
16	29.986	79.0	74.4	77	.767	SE	2	6	K.	...	1-2	
20	30.003	79.0	75.0	80	.793	SSE	2-3	9	K.	...	2	
24	.022	78.0	75.0	84	.810	S	2	9	K. str.	...	2	

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
JUNE 15, 1904.												At noon, lat. 3° 50' N. long. 19° 58' W.
4	29.968	77.0	75.0	89	.829	S	2	...	0	...	2	2a. ● ⁰
8	30.022	77.0	75.0	89	.829	SSE	3-4	9	K. str.	...	4	● ² between observations.
9.30	.072	72.4	72.0	98	.777	NE	3-4	10	Nim.	...	3	● ² for last 15 minutes, during which wind
12	.052	75.6	74.4	93	.829	E	1	10	Nim.	Cir. Cir. str.	1-2	● showers. [has suddenly veered.
16	.016	77.7	74.8	84	.807	SE	0-1	5	...	Cir. Cir. K.	1-2	
20	.044	78.0	75.0	84	.810	Calm	0	0	...	...	1	
24	.055	77.4	74.0	82	.776	S	1-2	4	K.	...	2	10.45p. ● squall.
JUNE 16.												At noon, lat. 6° 2' N. long. 20° 33' W.
4	30.015	75.8	74.7	94	.839	S	1	7	K. str.	...	2	2a. ● ² for 1 hour.
8	.070	78.3	75.5	86	.829	SE	0-1	9	K. str.	...	0-1	7.30. —
12	.047	79.9	75.7	79	.809	S	1	10	K. nim.	...	1	● ⁰ showers.
16	.004	82.1	77.1	76	.833	Var.	0-1	2	...	Cir. K., Cir.	0-1	5.30p. Double —.
20	.032	78.5	75.6	85	.829	SE	1	9	K.	...	0-1	● ²
24	.052	77.0	75.4	91	.848	N	1-2	2	K.	...	2	● showers.
JUNE 17.												At noon, lat. 7° 25' N. long. 21° 39' W.
4	30.019	76.2	74.2	89	.806	WNW	0-1	10	Nim.	...	2	2a. Passing ●. 3a. ● ² showers.
8	.054	79.0	75.6	83	.821	NNW	0-1	10	Nim.	...	0-1	Dim flashes forked <. ● ² since 9a.
12	.081	73.6	71.0	86	.712	N	2	10	Nim.	...	2-3	Constant ● till 13 hours. None since.
16	.008	77.8	74.9	85	.810	N	0-1	10	...	Cir str.	1-2	
20	.068	78.0	74.0	79	.765	NNE	1-2	3	K.	...	0-1	
24	.050	78.2	73.9	78	.758	N	1	...	0	...	0-1	
JUNE 18.												At noon, lat. 9° 46' N. long. 21° 34' W.
4	30.037	77.5	73.6	80	.756	N	1-2	0	...	...	1-2	
8	.090	77.2	73.0	78	.736	N	3	9	K. K. str.	...	3	
12	.068	76.7	72.6	79	.728	N	3	8	0	Cir str., Cir. K.	1-2	
16	.056	77.0	72.5	77	.718	N	3-4	3	K.	...	2-3	
20	.068	76.0	71.5	77	.693	N	1-2	8	K.	...	0-1	
24	.073	76.4	70.9	78	.663	N	2	...	0	...	1-2	
JUNE 19.												At noon, lat. 11° 32' N. long. 20° 30' W.
4	30.000	75.0	71.0	79	.690	N	1-2	0	...	...	1-2	1-2a. Forked < S.S.W. horizon.
8	.062	75.0	70.9	79	.686	N	2-3	8	K.	...	1-2	
12	.044	76.9	71.1	71	.663	NNE	1-2	9	K.	...	0-1	
16	.008	75.3	70.3	75	.657	NW	0-1	3	K.	...	0-1	
20	.035	74.0	69.7	78	.652	NW	0-1	7	K.	...	0-1	
24	.008	73.0	69.0	79	.641	NW	1	0	...	...	1-2	
JUNE 20.												At noon, lat. 13° 07' N. long. 21° 47' W.
4	29.997	72.5	69.0	81	.648	N	1-2	2	K.	...	1-2	
8	30.053	73.2	68.0	73	.601	N	2	9	K.	...	1	
12	.054	75.0	69.9	74	.646	NNW	1	7	K.	...	1	
16	.002	72.9	68.9	79	.639	N	2	4	K.	...	1-2	
20	.057	72.1	69.0	83	.654	N	1-2	2	K.	...	0-1	
24	.028	72.2	69.0	83	.652	Var. NNE	2	9	K. str.	...	2	

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
JUNE 21, 1904.												At noon, lat. 14° 27' N. long. 23° 30' W.
4	30.008	71.2	68.8	86	.661	NNE	2	10	Str.	...	2	
8	.088	71.5	68.0	81	.625	NE	3	10	K.	...	2	
12	.074	73.9	69.0	74	.627	NE	0-1	0	...	...	0-1	
16	.025	71.8	69.6	89	.683	N	5	0	...	...	3-4	
20	.022	72.5	70.0	86	.688	NW	5	0	...	...	2-3	
24	.054	72.5	68.8	80	.640	N	1-2	0	..	...	1-2	
JUNE 22.												At noon, lat. 15° 25' S. long. 25° 20' W.
4	30.047	72.0	68.0	79	.617	ENE	2-3	10	Str.	...	2	
8	.115	72.9	69.1	80	.646	NE	4	9	K.	...	2	
12	.104	73.0	69.0	79	.641	NE	1-2	5	K.	...	2	
16	.089	72.7	69.8	84	.678	NE	3	6	K.	...	2	
20	.123	72.5	70.0	86	.688	NE	2	10	K.	...	2-3	
24	.133	72.0	69.5	87	.676	ENE	1-2	10	Str.	...	2	● ⁿ . Drizzle.
JUNE 23.												At noon, lat. 16° 55' N. long. 26° 22' W.
4	30.094	71.2	69.8	92	.703	E	1-2	10	Str.	...	2-3	Passing ● showers. Fine drizzle.
8	.174	71.0	69.8	93	.706	ENE	2-3	10	K.	...	2-3	
12	.182	71.8	69.8	90	.692	NE	1-2	10	Nim.	...	1	●
16	.145	71.8	70.0	90	.700	NE	3-4	9	K.	...	2	
20	.180	71.0	69.8	93	.706	NE	3-4	10	K.	...	2-3	Drizzle.
24	.178	72.0	69.4	86	.671	ENE	2	10	Str.	...	2-3	
JUNE 24.												At noon, lat. 18° 43' N. long. 27° 46' W.
4	30.133	71.2	69.0	87	.669	NE	1	10	Str.	...	2	
8	.192	71.8	69.6	89	.683	NE	1-2	10	K. str.	...	2	
12	.194	72.3	69.8	86	.684	ENE	2-3	10	K. str.	...	2-3	
16	.129	72.5	71.4	93	.748	NE	3-4	10	K.	...	2-3	
20	.176	72.0	69.9	89	.692	NE	3-6	7	K.	...	3	Squalls.
24	.165	72.0	68.9	84	.651	ENE	1-2	9	K.	...	2	
JUNE 25.												At noon, lat. 20° 19' N. long. 29° 10' W.
4	30.123	72.0	68.7	83	.644	NE	2	10	K. str.	...	2	
8	.160	72.6	68.8	80	.639	NE	3-4	10	K.	...	3	
12	.167	73.6	69.9	81	.666	NE	4	9	K.	...	3	
16	.151	73.7	70.7	84	.698	NE	2-3	1	K.	...	2	
20	.178	72.9	70.0	84	.682	NE	4-5	0	...	...	3	
24	.176	72.8	69.7	84	.673	ENE	3-4	0	...	...	3	
JUNE 26.												At noon, lat. 22° 44' N. long. 30° 35' W.
4	30.158	72.8	69.8	84	.677	ENE	2-3	0	...	0	2-3	
8	.217	73.6	69.5	79	.651	NE	2-3	0	...	0	2	
12	.227	73.8	70.0	80	.667	ENE	3-4	5	K.	0	2-3	
16	.210	73.6	70.0	81	.670	E	3	1	K.	0	2-3	
20	.242	73.0	69.2	80	.649	ENE	4-5	0	...	0	3-4	
24	.257	73.0	70.0	84	.680	ENE	3	1	...	Cir K.	2-3	

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.		Amount of Sea, 0-9.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.			Upper Spec.
JUNE 27, 1904.												At noon, lat. 25° 02' N. long. 31° 51' W.
4	30.244	71.5	69.6	90	.688	NE	2-3	9	K.	...	2-3	● ²
8	.282	73.5	70.2	82	.680	NE	3	3	K.	...	2	
12	.295	73.5	70.2	82	.680	ENE	2	3	K.	...	1-2	
16	.291	73.8	69.8	79	.659	ENE	3-4	2	K.	...	2-3	
20	.335	73.0	69.9	84	.676	ENE	3-4	4	K.	...	2-3	
24	.336	72.8	69.8	84	.677	ENE	2	3	K.	Cir.	2	Cirrus from N.E.
JUNE 28.												At noon, lat. 27° 23' N. long. 33° 06' W.
4	30.316	72.1	70.3	90	.707	NE	0-1	9	K.	...	2	
8	.339	74.0	73.6	98	.821	NE	3-4	4	K.	Cir. K.	2	
12	.356	73.2	70.0	83	.677	ENE	4	0	...	...	3	
17	.344	73.0	69.2	80	.649	ENE	3	0	...	...	2	
20	.394	72.5	69.4	83	.664	NE	3-4	8	K.	...	3	
24	.395	72.0	68.0	79	.617	ENE	2-3	1	0	Cir. K.	2	Cir. K. from E.N.E.
JUNE 29.												At noon, lat. 29° 54' N. long. 34° 10' W.
4	30.399	71.5	67.9	81	.621	ENE	2-3	0	...	...	2	
8	.439	72.2	67.6	76	.600	ENE	2-3	2	K.	...	1-2	
12	.456	72.1	68.7	82	.643	E	3	1	K.	...	2	
16	.452	72.0	68.3	81	.628	ENE	2	3	K.	...	1-2	
20	.486	71.5	68.1	82	.629	E	1-2	1	K.	...	1	
24	.495	71.0	68.0	83	.633	E	1-2	0	...	...	1-2	
JUNE 30.												At noon, lat. 32° 11' N. long. 34° 10' W.
4	30.477	70.3	67.3	83	.619	E	1	10	K. K. str.	...	1	Lower clouds moving N.E.
8	.514	71.0	69.0	88	.672	NE	0-1	8	...	Cir. K.	0	
12	.499	72.1	69.8	87	.687	NNE	0	8	K.	Cir.	Calm	9 to 9.20. ●° showers.
16	.473	74.1	70.7	82	.692	NNE	0-1	4	K.	Cir.	0-1	
20	.486	71.2	70.3	95	.724	NNE	0-1	2	K.	Cir.	...	
24	.450	71.6	68.8	85	.654	N	1	8	K.	Alt. K.	0-1	
JULY 1.												At noon, lat. 33° 53' N. long. 32° 27' W.
4	30.399	71.8	69.7	89	.687	N	1	9	K.	...	0-1	
8	.411	70.7	69.7	94	.707	N	0-1	1	...	Cir.	0	● ² . Showers passing and q° 9.25-9.40.
12	.377	71.6	69.4	88	.679	N	1	2	K.	...	0-1	
16	.347	71.0	69.0	88	.672	NNW	2-3	6	K.	...	2	
20	.321	69.8	67.5	87	.635	N	1	0	...	...	0-1	
24	.261	69.3	68.7	96	.690	N	1	4	K. K. str.	...	0-1	
JULY 2.												At noon, lat. 36° 05' N. long. 30° 50' W.
4	30.185	69.2	68.7	97	.691	NW	1-2	6	K.	...	1	
8	.155	70.1	69.2	94	.697	W	3	8	0	Cir., Cir. K.	2	
12	.091	69.8	69.0	95	.694	W	3	9	K. str.	Cir. K.	2	10 to 10.12. ● sharp showers.
16	.055	68.8	68.3	97	.682	NW	2-3	6	K. str.	...	2	●°
20	.061	66.1	...	...	...	NNE	3-4	9	Nim.	...	2-3	
24	.060	66.2	65.6	97	.621	N	2	4	K. Scud	Cir.	1-2	

Hour.	Bar. at 32° and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-9.	Remarks.
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.		
JULY 3, 1904.												At noon, lat. 37° 41' N. long. 29° 25' W.
4	30.048	64.0	62.7	92	.550	NNE	2-3	10	Str.	...	2	2-3
8	.128	64.0	62.1	89	.529	NE	2-3	3	K.	...	2	
12	.127	64.0	61.8	87	.518	NNE	2-3	1	K.	...	2	
16	.131	64.3	61.8	86	.514	NNE	2-3	9	K. str.	...	2	
20	.190	64.0	60.9	82	.489	NNE	0-2	10	K. str.	...	1	
24	.229	63.8	60.4	80	.477	N	1	10	Str.	...	2	
JULY 4.												At noon, lat. 37° 56' N. long. 29° 11' W.
4	30.239	63.0	60.4	84	.487	NNE	0-1	10	Str.	...	...	0-1
8	.303	63.4	60.0	80	.469	NNE	0-1	10	K. str.	...	0-1	
12	.321	65.6	61.7	79	.492	NNE	0-1	10	K. str.	...	0	
16	.313	65.0	61.4	80	.491	NNE	0-1	4	K.	...	0	
20	.327	64.0	61.0	82	.492	NNE	0-1	10	K.	...	0	
24	.319	63.8	61.6	88	.515	NE	0-1	...	0	...	0-1	
JULY 5.												At Fayal, lat. 38° 30' N. long. 28° 33' W.
4	30.300	63.0	61.4	90	.520	NE	1	0	...	...	0-1	0
8	.320	65.3	63.5	89	.557	NE	0-1	10	K. str.	...		
JULY 6.												At Fayal.
20	30.270	64.9	64.0	95	.582	ENE	2-3	6	K. K. str.	...	1-2	0-1
24	.273	64.7	64.3	98	.596	E	1-2	3	K.	...		
JULY 7.												At noon, lat. 39° 15' N. long. 26° 55' W.
4	30.272	63.7	63.2	97	.572	NE	1	10	Str.	...	1	2a. Overcast with drizzle.
8	.303	61.6	60.9	95	.524	NNE	2-3	10	K.	...	2	
12	.304	64.2	62.5	90	.540	NE	2	5	K.	Cir.	2	
16	.282	64.0	62.5	91	.543	NE	1-2	6	K.	...	1-2	
20	.302	64.0	62.0	88	.525	NE	1-2	10	Nim.	...	1	
24	.293	63.1	59.5	79	.458	NE	1-2	0	...	...	1-2	Light drizzle. 20.15 ● ² showers.
JULY 8.												At noon, lat. 40° 19' N. long. 24° 47' W.
4	30.258	62.0	57.0	72	.399	NE	2	6	K.	Cir.	1-2	17.45 ● ² .
8	.289	62.0	56.2	68	.377	NNE	1-2	2	K.	Cir.	1	
12	.289	63.4	60.0	80	.470	NE	2-3	4	K.	...	1-2	
16	.274	64.0	61.0	82	.492	NE	0-1	7	...	Cir. Cir. K.	1	
20	.302	61.7	59.2	85	.467	NNE	1-2	10	Nim.	...	1	
24	.300	62.5	58.9	79	.446	NE	1-2	10	Str.	...	2	
JULY 9.												At noon, lat. 41° 18' N. long. 22° 25' W.
4	30.259	62.2	59.5	84	.469	NNE	1-2	19	Cir. K.	Cir.	1-2	23.30 ● ²
8	.286	62.0	59.9	87	.484	NE	1-2	9	K.	Cir. Cir. K.	1	
12	.287	63.0	60.0	82	.474	NE	2-3	9	K.	...	2	
16	.266	62.0	60.0	88	.487	N	3-4	10	K. str.	...	2-3	
20	.285	62.2	60.8	92	.510	NNE	1-2	10	K. str.	...	1-2	
24	.248	60.0	59.4	96	.498	N	1-2	10	Haze	...	1-2	

VOYAGE OF THE SCOTIA, 1902-1904.

105

Hour.	Bar. at 32" and Sea Level.	Dry.	Wet.	Hum.	Vapour Pressure.	Wind, True.		Cloud.			Amount of Sea, 0-8.	Remarks.	
						Direction.	Force.	Amt.	Lower Spec.	Upper Spec.			
JULY 10, 1904.													At noon, lat. 42° 44' N. long. 19° 30' W.
4	30.201	59.9	58.8	94	.480	N	2-3	10	K. str.	...	2	Passing ●.	
8	.211	60.7	57.0	78	.414	N	2-3	10	K. str.	...	2-3		
12	.196	60.2	58.8	92	.476	N	2-3	10	K.	...	2-3		
16	.151	60.3	58.2	87	.455	N	3-4	10	K. K. str.	...	2-3		
20	.143	61.0	58.0	82	.439	N	3-4	10	K. str.	...	3		
24	.092	60.2	58.3	89	.460	N	3	10	K. str., Scud.	...	2	●° showers between hours.	
JULY 11.													At noon, lat. 44° 11' N. long. 16° 05' W.
4	30.043	59.9	57.2	84	.430	N	3-4	10	K.	...	3	1a. Sky clear after ●°. Scud or ∞.	
8	.047	60.0	57.0	82	.423	N	3-4	10	K. str.	...	3		
12	.018	60.0	57.2	88	.429	NW	3-4	10	K. K. str.	...	3		
16	29.992	60.5	57.9	84	.443	NNW	4	10	K.	...	3		
20	30.001	60.0	58.0	88	.453	NW	3-4	10	K. str.	...	3		
24	29.959	61.0	59.8	93	.496	NW	2-3	10	K.	...	2-3	●° between hours. 20.45 ● falls.	
JULY 12.													At noon, lat. 45° 56' N. long. 12° 53' W.
4	29.929	61.2	60.5	96	.517	WNW	2-3	10	K. str.	...	3		
8	.965	62.7	61.0	90	.510	NW	2-3	10	K.	...	2		
12	.965	63.7	62.2	91	.536	WSW	0-1	6	0	Cir., Cir. K.	2		
16	.958	61.0	60.0	94	.508	WSW	2-3	10	Nim.	...	2		
20	.982	59.3	58.8	97	.489	WNW	3-4	7	K.	...	3		
24	30.020	59.0	55.7	80	.399	WNW	3-4	0	...	...	3		
JULY 13.													At noon, lat. 48° 23' N. long. 10° 22' W.
4	30.030	58.7	55.5	80	.398	NW	2	1	...	Alto K.	2-3		
8	.102	60.0	57.0	82	.423	SW	0-1	2	K.	Cir. str.	2		
12	.118	60.8	57.9	88	.440	SSW	2-3	3	0	Cir.	2		
16	.082	60.0	58.3	90	.463	SSW	1-2	10	K.	Cir. str.	1		
20	.078	58.8	57.5	93	.455	SSW	1-2	8	K.	Cir. K.	1		
24	.022	59.4	58.2	93	.468	SSW	3-4	10	Str. or haze.	...	3		
JULY 14.													At noon, lat. 51° 13' N. long. 7° 20' W.
4	29.946	59.8	58.7	93	.479	SW	6	10	K.	...	4-5	Slight drizzle.	
8	.932	59.6	59.0	96	.491	SW	5	10	Nim.	...	4		
12	.893	60.0	58.8	93	.479	SSW	3-4	10	K.	...	4		
16	.871	60.2	59.1	94	.485	SSW	5	10	K. str.	...	4-5		
20	.868	59.0	58.9	99	.497	SW	5	10	K. str.	Cir. K.	4-5		
24	.814	57.2	57.1	100	.465	SSW	2-3	10	Haze	...	2		
JULY 15.													At Kingstown.
4	29.730	55.8	55.2	95	.428	SSW	4-5	10	Nim.	...	3	1a. Wind increases with ● squalls. [Continuous ●. Thick weather.	
8	.693	57.8	57.8	100	.479	SSW	5-6	10	Mist	...	...		
12	.643	64.7	62.2	85	.421	S	0-1	10	K.	...	...		
16	.628	64.7	62.7	88	.539	S	1-2	10	Nim.	...	...		

METEOROLOGICAL OBSERVATIONS

TAKEN ON THE

SCOTIA

AT

SCOTIA BAY, LAURIE ISLAND, SOUTH ORKNEYS,

FROM APRIL 1ST TO OCTOBER 31ST, 1903;

AND AT

OMOND HOUSE, LAURIE ISLAND, SOUTH ORKNEYS,

FROM NOVEMBER 1ST, 1903, TO FEBRUARY 21ST, 1904.

LATITUDE 60° 43' 42" S. LONGITUDE 44° 38' 33" W.

METEOROLOGICAL OBSERVATIONS

AT

LAURIE ISLAND, SOUTH ORKNEYS.

POSITION OF STATION.

FROM 1st April to 31st October 1903 hourly meteorological observations were made at the winter quarters of the "Scotia" in Scotia Bay, during which time the ship was frozen in at a distance of about 600 yards south-east of the Central Cairn, which is in lat. $60^{\circ} 43' 42''$ S., long. $44^{\circ} 38' 33''$ W. On 1st November the hourly observations were transferred from the ship to the shore, where a stone hut, named "Omond House," had been built for the accommodation of the party who were to remain on the island while the "Scotia" went north to refit at Buenos Aires. The observations taken on the ship and the instruments in use were exactly similar to those described in the introduction to the Sea Observations. In addition, a Robinson hemispherical cup anemometer was placed about six feet above the level of the poop, during the wintering of the ship, in a position where it was freely exposed to the prevailing winds. The exposure was good, except from the west-south-west, but in that direction some hills exerted a disturbing influence, making the winds squally and uncertain. A snow gauge was also in use, but owing to the frequency of heavy drift its readings were untrustworthy as a measure of the true precipitation, and I cannot bring forward the results with any degree of confidence.

OMOND HOUSE STATION.

Soon after the arrival of the "Scotia" in winter quarters an auxiliary station was established on the beach that here divides the north from the south side of the island. Here were placed four screens containing the following instruments—one large and one small Richard thermograph, one Richard hygrograph, dry and wet bulb thermometers, a maximum and minimum thermometer, and a black bulb *in vacuo* registering maximum thermometer. The Campbell Stokes sunshine recorder was placed on a cairn about four

feet high to the west of Copeland Observatory. Unfortunately it was not possible to obtain a site for this instrument where there was a clear horizon at all hours. In summer, hills to the west cut the solar rays off at about 7 P.M., and in winter the total possible of about five hours was reduced to about half that amount by mountains to the N.N.E. The amount of cloud was, however, noted every hour, which helps to supplement the somewhat defective sunshine record. The instruments at this station were read and set once a day until 1st November, when the summer party went into residence in the stone hut built during the winter for their accommodation, and after that date hourly observations were taken until 21st February 1904, when the station was taken over by the Argentine Meteorological Office on the return of the "Scotia."

The barometer employed on and after 1st November was of the Kew Station pattern, Adie No. 564. This instrument was compared at Kew and the Meteorological Office before and after the return of the Expedition, and its correction was found to remain unaltered. From a comparison of eighty-nine simultaneous observations made from 24th October to 21st November between the station barometer, No. 564, and the Kew marine barometer, No. A. 520, on board the "Scotia," it was found that the station barometer read 0.011 inch lower than that on the ship after all the instrumental and other corrections had been applied. Too much importance cannot, however, be attached to this difference, owing to the frequency of local squalls in the vicinity of the house, which slightly lowered the barometric pressure there on many occasions.

The form of publication for the hourly values is that usually employed in the printing of observations from stations of the first order. It was considered (after consulting the leading British meteorologists) inexpedient to attempt to compute the relative humidity and vapour pressure of the period 28th April to 4th October from the dry and wet bulb readings, owing to the doubt that attaches to such reductions at temperatures below 10° Fahrenheit. In the tables the depression of the wet bulb is given. For the summer months the humidity and vapour pressure were taken from Glaisher's tables.

With regard to the Richard Hair hygrographs, the traces in winter were so imperfect, owing to the frequency of blizzards, that no systematic use could be made of the charts, which were, however, used in summer as a check on the dry and wet bulb readings when any anomaly presented itself in the readings.

It is important to observe that, owing to the proximity of cliffs to the west and south-west, the winds recorded at Omond House do not represent the true atmospheric circulation, especially in the case of winds from south, south-west, and west, which were frequently deflected to south-east. With winds from other quarters the errors introduced were small.

In addition to the ordinary observations, the limit of visibility was observed on a scale of 0 to 12. These values are not printed *in extenso*, but an abstract of the hourly values will be found in the portion of this memoir devoted to the results of the observations.

METEOROLOGICAL OBSERVATIONS AT SCOTIA BAY, ETC.

111

BAROMETER.

CORRECTED TO 32° AND REDUCED TO MEAN SEA LEVEL.

APRIL 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid-night.	Mean.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	9.080	9.109	9.125	9.124	9.116	9.180	9.194	9.228	9.231	9.252	9.269	9.305	9.328	9.369	9.397	9.434	9.460	9.501	9.512	9.537	9.559	9.578	9.603	9.645	29.340
2	9.659	9.674	9.709	9.741	9.757	9.781	9.812	9.832	9.841	9.829	9.859	9.845	9.810	9.838	9.849	9.850	9.814	9.820	9.792	9.782	9.765	9.738	9.721	9.688	29.786
3	9.626	9.583	9.569	9.540	9.506	9.469	9.409	9.384	9.368	9.332	9.264	9.211	9.176	9.148	9.131	9.129	9.129	9.162	9.188	9.233	9.269	9.288	9.322	9.324	29.323
4	9.345	9.311	9.342	9.347	9.344	9.336	9.285	9.296	9.214	9.195	9.124	9.081	9.048	9.023	9.007	9.008	9.031	9.069	9.096	9.129	9.156	9.187	9.208	9.233	29.186
5	9.272	9.290	9.323	9.342	9.361	9.383	9.405	9.419	9.421	9.420	9.415	9.412	9.393	9.381	9.371	9.338	9.342	9.313	9.296	9.272	9.284	9.260	9.246	9.233	29.341
6	9.227	9.225	9.235	9.240	9.244	9.239	9.230	9.229	9.223	9.209	9.189	9.182	9.160	9.125	9.073	9.081	9.071	9.095	9.114	9.130	9.148	9.150	9.147	9.154	29.172
7	9.176	9.180	9.183	9.181	9.187	9.199	9.210	9.219	9.240	9.241	9.237	9.252	9.246	9.240	9.250	9.255	9.265	9.279	9.284	9.290	9.297	9.297	9.286	9.286	29.241
8	9.288	9.293	9.288	9.260	9.258	9.257	9.241	9.244	9.226	9.197	9.157	9.133	9.108	9.081	9.083	9.074	9.109	9.115	9.115	9.116	9.107	9.088	9.081	9.047	29.165
9	9.021	8.992	8.955	8.915	8.885	8.866	8.851	8.848	8.882	8.908	8.921	8.938	8.981	9.021	9.063	9.096	9.157	9.190	9.240	9.270	9.317	9.341	9.384	9.396	29.060
10	9.402	9.427	9.449	9.445	9.460	9.467	9.483	9.503	9.504	9.486	9.481	9.478	9.473	9.460	9.436	9.432	9.438	9.442	9.480	9.472	9.474	9.452	9.474	9.467	29.462
11	9.482	9.485	9.469	9.468	9.466	9.462	9.446	9.425	9.398	9.379	9.354	9.362	9.373	9.374	9.370	9.390	9.406	9.431	9.440	9.433	9.452	9.435	9.433	9.431	29.428
12	9.411	9.394	9.391	9.364	9.339	9.326	9.309	9.309	9.308	9.300	9.290	9.279	9.273	9.257	9.232	9.231	9.205	9.182	9.148	9.106	9.073	9.022	8.990	8.936	29.236
13	8.893	8.886	8.884	8.889	8.889	8.880	8.884	8.904	8.925	8.938	8.921	8.911	8.894	8.897	8.889	8.868	8.855	8.847	8.845	8.863	8.882	8.869	8.894	8.910	28.888
14	8.912	8.928	8.934	8.941	8.942	8.944	8.949	8.979	8.990	9.004	9.009	9.021	9.041	9.050	9.071	9.091	9.130	9.158	9.195	9.218	9.249	9.254	9.278	9.313	29.067
15	9.348	9.372	9.388	9.436	9.470	9.469	9.489	9.507	9.504	9.503	9.488	9.485	9.461	9.422	9.412	9.398	9.396	9.397	9.379	9.373	9.365	9.354	9.327	9.302	29.419
16	9.261	9.211	9.155	9.096	9.040	8.988	8.968	8.958	8.958	8.983	9.057	9.174	9.281	9.350	9.432	9.432	9.490	9.518	9.542	9.576	9.592	9.584	9.569	9.557	29.280
17	9.538	9.512	9.478	9.470	9.426	9.427	9.390	9.368	9.400	9.419	9.430	9.432	9.456	9.462	9.449	9.415	9.333	9.356	9.369	9.369	9.359	9.360	9.366	9.357	29.494
18	9.622	9.626	9.626	9.625	9.614	9.612	9.606	9.628	9.595	9.596	9.571	9.558	9.556	9.537	9.521	9.516	9.499	9.500	9.486	9.474	9.452	9.447	9.456	9.431	29.548
19	9.492	9.503	9.514	9.530	9.539	9.558	9.579	9.592	9.619	9.613	9.617	9.594	9.575	9.580	9.551	9.562	9.545	9.528	9.509	9.484	9.468	9.456	9.416	9.404	29.534
20	9.385	9.392	9.399	9.397	9.460	9.495	9.530	9.573	9.610	9.612	9.620	9.608	9.619	9.623	9.620	9.611	9.597	9.589	9.568	9.545	9.518	9.493	9.456	9.454	29.532
21	9.444	9.430	9.423	9.406	9.395	9.401	9.389	9.383	9.375	9.361	9.347	9.332	9.334	9.326	9.313	9.298	9.290	9.269	9.251	9.207	9.192	9.166	9.140	9.100	29.316
22	9.106	9.108	9.120	9.130	9.148	9.158	9.169	9.195	9.195	9.211	9.205	9.210	9.205	9.182	9.171	9.153	9.118	9.073	9.059	9.036	9.006	8.970	8.928	8.893	29.115
23	8.840	8.803	8.747	8.690	8.644	8.616	8.591	8.595	8.627	8.659	8.700	8.778	8.827	8.884	8.909	8.971	9.014	9.046	9.063	9.054	9.034	8.956	8.967	8.938	28.831
24	8.923	8.901	8.886	8.836	8.821	8.787	8.750	8.688	8.613	8.531	8.452	8.372	8.314	8.284	8.279	8.282	8.348	8.446	8.526	8.645	8.700	8.762	8.799	8.789	28.614
25	8.856	8.857	8.842	8.836	8.871	8.859	8.837	8.856	8.862	8.864	8.867	8.903	8.905	8.917	8.914	8.931	8.936	8.945	8.951	8.943	8.920	8.903	8.879	8.829	28.887
26	8.745	8.705	8.645	8.625	8.647	8.649	8.668	8.686	8.669	8.644	8.586	8.531	8.535	8.531	8.551	8.642	8.703	8.718	8.726	8.704	8.680	8.645	8.619	8.642	28.646
27	8.657	8.684	8.686	8.700	8.687	8.736	8.740	8.803	8.827	8.858	8.885	8.906	8.905	8.896	8.883	8.893	8.893	8.884	8.865	8.885	8.876	8.877	8.915	8.931	28.829
28	8.952	8.991	9.033	9.062	9.106	9.131	9.156	9.182	9.190	9.203	9.200	9.212	9.207	9.205	9.203	9.179	9.165	9.132	9.126	9.085	9.063	9.042	9.018	8.991	29.118
29	8.994	8.958	8.965	8.977	9.003	9.036	9.077	9.132	9.180	9.207	9.246	9.280	9.300	9.304	9.304	9.312	9.326	9.312	9.310	9.287	9.270	9.255	9.238	9.233	29.187
30	9.214	9.198	9.168	9.141	9.129	9.099	9.083	9.073	9.068	9.037	9.031	9.028	9.018	9.022	9.009	9.014	9.021	9.030	9.033	9.034	9.048	9.055	9.056	9.076	29.070
Means	9.205	9.203	9.198	9.192	9.193	9.194	9.191	9.201	9.203	9.200	9.193	9.194	9.194	9.193	9.192	9.200	9.211	9.218	9.223	9.225	9.226	9.217	9.216	9.208	29.204

BAROMETER.

CORRECTED TO 32° AND REDUCED TO MEAN SEA LEVEL.

MAY 1903.

	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	9.066	9.073	9.083	9.090	9.107	9.123	9.143	9.156	9.173	9.185	9.189	9.196	9.202	9.212	9.244	9.231	9.233	9.249	9.234	9.236	9.245	9.241	9.232	9.230	9.230	9.230	9.230	9.230	9.230	9.230	9.230	29.182
2	9.240	9.197	9.187	9.161	9.149	9.128	9.091	9.093	9.084	9.034	9.006	8.988	8.942	8.913	8.885	8.865	8.842	8.797	8.769	8.755	8.740	8.732	8.722	8.701	8.701	8.701	8.701	8.701	8.701	8.701	8.701	28.953
3	8.695	8.686	8.679	8.661	8.657	8.654	8.644	8.667	8.663	8.655	8.675	8.693	8.704	8.712	8.731	8.743	8.745	8.763	8.758	8.773	8.786	8.781	8.779	8.781	8.781	8.781	8.781	8.781	8.781	8.781	8.781	28.712
4	8.771	8.769	8.751	8.777	8.771	8.775	8.772	8.790	8.784	8.786	8.797	8.787	8.788	8.792	8.802	8.803	8.818	8.839	8.853	8.856	8.865	8.878	8.879	8.890	8.890	8.890	8.890	8.890	8.890	8.890	8.890	28.808
5	8.900	8.922	8.944	8.957	8.983	9.015	9.055	9.082	9.099	9.145	9.150	9.151	9.170	9.193	9.221	9.236	9.253	9.272	9.275	9.289	9.292	9.299	9.308	9.307	9.307	9.307	9.307	9.307	9.307	9.307	9.307	29.146
6	9.304	9.321	9.326	9.334	9.346	9.350	9.351	9.384	9.384	9.396	9.398	9.396	9.407	9.413	9.436	9.447	9.465	9.473	9.483	9.503	9.521	9.518	9.525	9.528	9.528	9.528	9.528	9.528	9.528	9.528	9.528	29.417
7	9.523	9.543	9.531	9.544	9.556	9.556	9.562	9.588	9.593	9.590	9.595	9.594	9.546	9.601	9.593	9.605	9.618	9.616	9.634	9.640	9.638	9.650	9.665	9.666	9.666	9.666	9.666	9.666	9.666	9.666	9.666	29.596
8	9.659	9.658	9.649	9.647	9.663	9.670	9.675	9.694	9.701	9.701	9.718	9.710	9.712	9.709	9.705	9.708	9.701	9.702	9.700	9.682	9.670	9.659	9.651	9.650	9.650	9.650	9.650	9.650	9.650	9.650	9.650	29.683
9	9.627	9.614	9.606	9.570	9.551	9.531	9.506	9.496	9.472	9.440	9.419	9.397	9.375	9.367	9.362	9.367	9.368	9.367	9.370	9.371	9.374	9.346	9.347	9.355	9.355	9.355	9.355	9.355	9.355	9.355	9.355	29.442
10	9.337	9.331	9.318	9.306	9.295	9.297	9.300	9.300	9.302	9.295	9.287	9.271	9.267	9.253	9.237	9.232	9.227	9.215	9.209	9.179	9.156	9.136	9.101	9.085	9.085	9.085	9.085	9.085	9.085	9.085	9.085	29.247
11	9.080	9.055	9.020	9.003	8.994	8.980	8.972	8.986	8.992	9.010	8.997	9.043	9.080	9.105	9.108	9.143	9.172	9.209	9.245	9.271	9.307	9.336	9.359	9.373	9.373	9.373	9.373	9.373	9.373	9.373	9.373	29.118
12	9.407	9.443	9.469	9.498	9.526	9.570	9.600	9.646	9.672	9.714	9.727	9.738	9.744	9.759	9.776	9.792	9.821	9.840	9.851	9.882	9.902	9.902	9.926	9.944	9.944	9.944	9.944	9.944	9.944	9.944	9.944	29.715
13	9.946	9.963	9.975	9.988	9.986	9.994	9.993	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	9.994	29.952
14	9.918	9.897	9.895	9.889	9.888	9.884	9.881	9.818	9.826	9.785	9.768	9.740	9.746	9.629	9.591	9.544	9.487	9.433	9.365	9.308	9.266	9.250	9.234	9.234	9.234	9.234	9.234	9.234	9.234	9.234	9.234	29.417
15	9.253	9.288	9.318	9.315	9.362	9.384	9.405	9.437	9.469	9.473	9.462	9.464	9.484	9.442	9.431	9.442	9.420	9.425	9.414	9.438	9.457	9.451	9.458	9.477	9.477	9.477	9.477	9.477	9.477	9.477	9.477	29.417
16	9.492	9.511	9.519	9.540	9.557	9.557	9.574	9.527	9.611	9.665	9.653	9.663	9.683	9.638	9.678	9.697	9.726	9.737	9.756	9.740	9.744	9.724	9.707	9.724	9.724	9.724	9.724	9.724	9.724	9.724	9.724	29.650
17	9.705	9.688	9.671	9.649	9.643	9.623	9.603	9.577	9.556	9.519	9.494	9.443	9.409	9.368	9.306	9.293	9.256	9.261	9.231	9.199	9.172	9.154	9.137	9.127	9.127	9.127	9.127	9.127	9.127	9.127	9.127	29.421
18	9.132	9.141	9.157	9.191	9.201	9.224	9.249	9.319	9.311	9.372	9.387	9.414	9.437	9.443	9.438	9.431	9.427	9.380	9.316	9.280	9.191	9.146	9.110	9.120	9.120	9.120	9.120	9.120	9.120	9.120	9.120	29.286
19	9.140	9.188	9.214	9.240	9.302	9.345	9.355	9.376	9.390	9.374	9.379	9.388	9.389	9.368	9.353	9.333	9.317	9.300	9.279	9.268	9.251	9.213	9.194	9.183	9.183	9.183	9.183	9.183	9.183	9.183	9.183	29.298
20	9.152	9.122	9.095	9.092	9.050	9.045	9.025	9.011	9.042	9.062	9.072	9.079	9.078	9.062	9.064	9.056	9.039	9.067	9.064	9.058	9.057	9.045	9.042	9.059	9.059	9.059	9.059	9.059	9.059	9.059	9.059	29.067
21	9.068	9.096	9.127	9.155	9.187	9.182	9.214	9.238	9.232	9.233	9.231	9.191	9.176	9.133	9.091	9.037	8.986	8.932	8.884	8.863	8.851	8.841	8.837	8.762	8.762	8.762	8.762	8.762	8.762	8.762	8.762	29.065
22	8.732	8.713	8.769	8.855	8.936	9.099	9.011	9.043	9.045	9.039	9.059	9.073	9.096	9.119	9.148	9.170	9.196	9.208	9.228	9.214	9.198	9.183	9.171	9.151	9.151	9.151	9.151	9.151	9.151	9.151	9.151	29.056
23	9.127	9.117	9.093	9.083	9.087	9.092	9.099	9.113	9.112	9.108	9.100	9.087	9.064	9.021	8.971	8.934	8.881	8.840	8.853	8.845	8.853	8.860	8.892	8.922	8.922	8.922	8.922	8.922	8.922	8.922	8.922	29.003
24	8.941	8.963	8.970	8.973	8.955	8.938	8.946	8.931	8.897	8.873	8.844	8.812	8.779	8.725	8.778	8.783	8.798	8.808	8.825	8.833	8.838	8.823	8.838	8.839	8.865	8.865	8.865	8.865	8.865	8.865	8.865	28.865
25	8.853	8.855	8.876	8.876	8.910	8.912	8.923	8.942	8.953	8.976	9.015	9.067	9.098	9.161	9.206	9.245	9.300	9.298	9.324	9.340	9.364	9.328	9.307	9.262	9.262	9.262	9.262	9.262	9.262	9.262	9.262	29.100
26	9.231	9.190	9.158	9.141	9.137	9.155	9.167	9.192	9.258	9.328	9.389	9.468	9.535	9.565	9.606	9.649	9.678	9.705	9.738	9.752	9.768	9.760	9.778	9.774	9.774	9.774	9.774	9.774	9.774	9.774	9.774	29.463
27	9.764	9.761	9.747	9.715	9.709	9.699	9.683	9.659	9.655	9.633	9.610	9.587	9.550	9.527	9.502	9.483	9.461	9.437	9.426	9.409	9.402	9.385	9.387	9.389	9.389	9.389	9.389	9.389	9.389	9.389	9.389	29.566
28	9.392	9.394	9.386	9.390	9.387	9.383	9.383	9.414	9.404	9.423	9.411	9.408	9.408	9.398	9.385	9.379	9.309	9.263	9.220	9.188	9.126	9.076	9.063	9.062	9.062	9.062	9.062	9.062	9.062	9.062	9.062	29.319
29	9.072	9.104	9.151	9.205	9.248	9.292	9.361	9.433	9.493	9.561	9.615	9.647	9.703	9.733	9.777	9.821	9.843	9.853	9.850	9.838	9.827	9.810	9.778	9.736	9.736	9.736	9.736	9.736	9.736	9.736	9.736	29.572
30	9.699	9.682	9.669	9.664	9.671	9.685	9.712	9.778	9.813	9.849	9.898	9.917	9.947	9.960	9.966	9.974	9.970	9.972	9.964	9.956	9.945	9.912	9.897	9.881	9.881	9.881	9.881	9.881	9.881	9.881	29.849	
31	9.858	9.812	9.791	9.766	9.729	9.687	9.649	9.629	9.621	9.607	9.597	9.567	9.559	9.553	9.559	9.561	9.568	9.560	9.538	9.516	9.483	9.450	9.408	9.351	9.351	9.351	9.351	9.351	9.351	9.351	9.351	29.604
Means	9.292	9.294	9.295	9.299	9.307	9.313	9.319	9.334	9.345	9.349	9.352	9.354	9.356	9.352	9.353	9.352	9.351	9.346	9.341	9.336	9.330	9.317	9.312	9.306	9.306	9.306	9.306	9.306	9.306	9.306	9.306	29.229

BAROMETER.

CORRECTED TO 32° AND REDUCED TO MEAN SEA LEVEL.

JUNE 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	9.311	9.277	9.257	9.207	9.169	9.171	9.167	9.172	9.189	9.217	9.232	9.245	9.257	9.300	9.277	9.270	9.244	9.221	9.192	9.131	9.068	8.987	8.917	8.841	29.180
2	8.766	8.712	8.698	8.653	8.655	8.651	8.658	8.692	8.721	8.772	8.783	8.780	8.756	8.727	8.670	8.626	8.594	8.554	8.553	8.564	8.576	8.595	8.614	8.630	29.667
3	8.639	8.642	8.628	8.620	8.593	8.555	8.514	8.488	8.450	8.501	8.647	8.702	8.708	8.699	8.726	8.727	8.749	8.737	8.750	8.746	8.728	8.713	8.725	8.728	28.655
4	8.738	8.753	8.759	8.763	8.794	8.813	8.830	8.863	8.890	8.923	8.957	9.006	9.031	9.081	9.119	9.166	9.230	9.290	9.324	9.378	9.414	9.445	9.478	9.520	29.065
5	9.555	9.571	9.605	9.625	9.664	9.678	9.700	9.715	9.736	9.705	9.702	9.730	9.744	9.747	9.774	9.736	9.727	9.725	9.713	9.708	9.678	9.658	9.634	9.612	29.685
6	9.602	9.576	9.578	9.548	9.532	9.525	9.503	9.489	9.450	9.420	9.381	9.333	9.293	9.255	9.213	9.184	9.167	9.136	9.118	9.085	9.056	9.024	8.946	8.964	29.307
7	9.944	9.927	8.951	9.007	9.108	9.200	9.277	9.318	9.427	9.482	9.520	9.573	9.601	9.619	9.641	9.677	9.695	9.713	9.730	9.744	9.753	9.752	9.763	9.779	29.468
8	9.774	9.792	9.774	9.776	9.775	9.771	9.760	9.763	9.757	9.747	9.720	9.708	9.689	9.656	9.636	9.630	9.599	9.575	9.544	9.530	9.502	9.464	9.420	9.378	29.656
9	9.336	9.284	9.253	9.197	9.151	9.111	9.048	9.029	8.958	8.907	8.884	8.862	8.846	8.831	8.806	8.831	8.865	8.891	8.913	8.947	8.953	8.995	9.024	9.035	28.998
10	9.053	9.082	9.119	9.124	9.158	9.189	9.206	9.207	9.252	9.240	9.247	9.244	9.251	9.244	9.227	9.224	9.220	9.226	9.239	9.234	9.241	9.244	9.243	9.246	29.207
11	9.232	9.245	9.244	9.237	9.245	9.240	9.235	9.245	9.229	9.214	9.193	9.184	9.174	9.162	9.149	9.136	9.131	9.133	9.117	9.122	9.115	9.111	9.097	9.093	29.178
12	9.099	9.107	9.107	9.104	9.123	9.122	9.104	9.119	9.103	9.089	9.077	9.082	9.096	9.086	9.079	9.083	9.079	9.078	9.068	9.060	9.039	9.029	9.008	8.989	29.080
13	8.964	8.954	8.941	8.920	8.921	8.929	8.990	9.050	9.086	9.141	9.187	9.203	9.240	9.288	9.307	9.336	9.356	9.377	9.396	9.396	9.427	9.423	9.433	9.427	29.196
14	9.428	9.419	9.396	9.387	9.375	9.364	9.366	9.368	9.365	9.412	9.441	9.462	9.498	9.515	9.535	9.541	9.556	9.576	9.561	9.575	9.555	9.526	9.531	9.509	29.469
15	9.499	9.487	9.469	9.442	9.421	9.430	9.433	9.446	9.451	9.432	9.419	9.412	9.401	9.392	9.382	9.370	9.384	9.383	9.363	9.377	9.356	9.345	9.332	9.310	29.406
16	9.257	9.245	9.209	9.179	9.160	9.123	9.114	9.114	9.210	9.229	9.254	9.289	9.330	9.344	9.376	9.424	9.463	9.489	9.504	9.519	9.546	9.554	9.557	9.564	29.335
17	9.584	9.576	9.606	9.619	9.619	9.636	9.647	9.681	9.653	9.611	9.584	9.556	9.497	9.417	9.354	9.291	9.250	9.207	9.168	9.133	9.101	9.152	9.206	9.249	29.433
18	9.296	9.327	9.364	9.401	9.400	9.426	9.441	9.452	9.455	9.462	9.438	9.441	9.411	9.396	9.382	9.386	9.390	9.370	9.352	9.365	9.362	9.359	9.346	9.363	29.391
19	9.371	9.384	9.405	9.416	9.422	9.415	9.417	9.433	9.411	9.410	9.421	9.423	9.437	9.450	9.464	9.469	9.502	9.493	9.501	9.504	9.519	9.518	9.520	9.528	29.451
20	9.514	9.507	9.515	9.508	9.501	9.498	9.474	9.501	9.498	9.496	9.511	9.482	9.489	9.494	9.494	9.490	9.491	9.510	9.491	9.486	9.516	9.500	9.507	9.508	29.499
21	9.516	9.522	9.530	9.527	9.536	9.533	9.539	9.557	9.562	9.573	9.567	9.559	9.571	9.580	9.572	9.591	9.607	9.614	9.627	9.657	9.637	9.639	9.637	9.632	29.579
22	9.642	9.650	9.661	9.635	9.640	9.633	9.633	9.631	9.620	9.601	9.566	9.556	9.555	9.532	9.525	9.512	9.525	9.525	9.530	9.535	9.557	9.561	9.599	9.607	29.585
23	9.633	9.660	9.659	9.680	9.687	9.681	9.685	9.719	9.725	9.725	9.733	9.740	9.748	9.713	9.714	9.720	9.734	9.730	9.728	9.732	9.734	9.716	9.703	9.656	29.706
24	9.685	9.679	9.664	9.638	9.631	9.618	9.598	9.596	9.578	9.573	9.552	9.518	9.487	9.461	9.429	9.394	9.366	9.328	9.316	9.278	9.244	9.214	9.175	9.148	29.465
25	9.120	9.085	9.052	9.024	8.993	8.975	8.948	8.949	8.958	8.923	8.921	8.889	8.875	8.842	8.806	8.794	8.791	8.773	8.758	8.759	8.737	8.721	8.715	8.703	28.880
26	8.690	8.686	8.684	8.676	8.687	8.674	8.679	8.695	8.699	8.691	8.696	8.693	8.696	8.696	8.693	8.714	8.717	8.731	8.746	8.756	8.773	8.780	8.799	8.799	28.712
27	8.809	8.823	8.833	8.841	8.857	8.876	8.882	8.906	8.922	8.953	8.974	8.957	8.981	8.988	8.987	8.986	9.008	8.997	8.987	8.989	8.990	8.976	8.977	8.964	28.936
28	8.964	8.955	8.942	8.941	8.931	8.929	8.950	8.967	8.968	8.986	9.002	9.029	9.021	9.046	9.052	9.080	9.118	9.142	9.173	9.206	9.215	9.220	9.218	9.249	29.054
29	9.253	9.269	9.262	9.279	9.263	9.283	9.282	9.277	9.283	9.296	9.286	9.300	9.316	9.339	9.362	9.404	9.425	9.439	9.455	9.466	9.450	9.439	9.428	9.408	29.344
30	9.383	9.375	9.344	9.317	9.291	9.258	9.232	9.211	9.178	9.127	9.079	9.005	8.945	8.877	8.827	8.812	8.813	8.822	8.857	8.918	8.975	9.034	9.090	9.126	29.079
Means	9.255	9.252	9.250	9.243	9.243	9.244	9.244	9.256	9.259	9.262	9.266	9.265	9.265	9.259	9.253	9.253	9.260	9.260	9.259	9.263	9.260	9.256	9.254	9.250	29.256

BAROMETER.

CORRECTED TO 32° AND REDUCED TO MEAN SEA LEVEL.

JULY 1903.

	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	9.149	9.184	9.202	9.203	9.201	9.178	9.171	9.146	9.100	9.045	9.014	8.929	8.900	8.902	8.931	9.008	9.053	9.098	9.139	9.187	9.210	9.229	9.240	9.253	29.112
2	9.269	9.293	9.293	9.273	9.258	9.216	9.243	9.227	9.198	9.174	9.146	9.111	9.094	9.064	9.036	9.018	8.992	8.960	8.930	8.873	8.859	8.820	8.767	8.702	29.077
3	8.628	8.549	8.463	8.391	8.349	8.323	8.299	8.289	8.266	8.261	8.237	8.231	8.263	8.278	8.293	8.318	8.318	8.309	8.333	8.408	8.460	8.488	8.531	8.602	28.370
4	8.639	8.684	8.718	8.746	8.780	8.795	8.800	8.828	8.839	8.862	8.865	8.847	8.859	8.861	8.841	8.858	8.877	8.873	8.877	8.864	8.849	8.827	8.819	8.824	28.818
5	8.834	8.837	8.835	8.836	8.840	8.838	8.846	8.840	8.866	8.864	8.850	8.855	8.852	8.866	8.847	8.854	8.904	8.945	9.057	9.003	9.018	9.046	9.068	9.081	28.900
6	9.097	9.113	9.127	9.127	9.166	9.189	9.222	9.253	9.274	9.300	9.285	9.311	9.334	9.346	9.324	9.342	9.323	9.287	9.252	9.212	9.189	9.168	9.154	9.155	29.230
7	9.141	9.139	9.131	9.101	9.101	9.084	9.081	9.092	9.083	9.083	9.093	9.076	9.071	9.056	9.051	9.053	9.058	9.068	9.092	9.093	9.076	9.080	9.076	9.069	29.085
8	9.067	9.067	9.057	9.033	9.025	9.023	9.028	9.056	9.071	9.093	9.062	9.151	9.185	9.203	9.225	9.268	9.299	9.322	9.361	9.387	9.389	9.415	9.435	9.424	29.193
9	9.436	9.438	9.436	9.418	9.413	9.416	9.422	9.426	9.438	9.431	9.429	9.453	9.438	9.433	9.417	9.418	9.409	9.403	9.397	9.406	9.381	9.351	9.337	9.317	29.410
10	9.273	9.240	9.176	9.109	9.066	9.011	8.953	8.905	8.871	8.844	8.840	8.865	8.920	8.932	8.983	9.010	9.039	9.091	9.105	9.148	9.191	9.231	9.245	9.274	29.055
11	9.292	9.295	9.310	9.308	9.320	9.332	9.354	9.359	9.377	9.338	9.355	9.322	9.319	9.289	9.287	9.246	9.253	9.243	9.200	9.185	9.139	9.122	9.105	9.068	29.259
12	9.050	8.985	8.983	8.970	8.966	8.966	8.964	9.003	9.025	9.024	9.047	9.074	9.074	9.093	9.116	9.146	9.176	9.174	9.175	9.174	9.147	9.116	9.100	9.028	29.066
13	8.979	8.896	8.776	8.696	8.626	8.579	8.529	8.515	8.482	8.438	8.394	8.326	8.303	8.294	8.359	8.416	8.503	8.545	8.591	8.649	8.680	8.707	8.735	8.786	28.575
14	8.802	8.799	8.773	8.731	8.695	8.654	8.654	8.735	8.774	8.820	8.883	8.968	9.012	9.018	9.095	9.092	9.168	9.157	9.185	9.205	9.221	9.234	9.248	9.281	28.966
15	9.305	9.312	9.334	9.333	9.348	9.347	9.338	9.341	9.346	9.367	9.363	9.385	9.364	9.361	9.356	9.330	9.312	9.269	9.250	9.219	9.201	9.169	9.137	9.113	29.300
16	9.089	9.080	9.055	9.010	8.969	8.937	8.901	8.905	8.900	8.890	8.878	8.881	8.910	8.943	8.984	9.008	9.041	9.062	9.083	9.097	9.136	9.158	9.189	9.216	29.013
17	9.255	9.291	9.326	9.352	9.387	9.428	9.451	9.526	9.567	9.623	9.614	9.662	9.681	9.692	9.693	9.720	9.704	9.709	9.715	9.700	9.697	9.689	9.685	9.677	29.577
18	9.688	9.705	9.694	9.703	9.711	9.720	9.740	9.749	9.745	9.747	9.759	9.775	9.761	9.761	9.759	9.786	9.796	9.797	9.805	9.809	9.815	9.815	9.823	9.813	29.762
19	9.811	9.818	9.813	9.816	9.818	9.820	9.825	9.832	9.842	9.844	9.845	9.830	9.830	9.839	9.813	9.830	9.825	9.816	9.817	9.803	9.798	9.768	9.748	9.729	29.814
20	9.724	9.706	9.700	9.688	9.682	9.668	9.651	9.633	9.651	9.639	9.612	9.579	9.569	9.561	9.537	9.538	9.517	9.500	9.482	9.464	9.466	9.446	9.426	9.414	29.578
21	9.403	9.396	9.385	9.366	9.377	9.380	9.385	9.402	9.440	9.457	9.472	9.509	9.495	9.511	9.533	9.551	9.565	9.574	9.560	9.550	9.523	9.474	9.444	9.398	29.465
22	9.369	9.341	9.319	9.301	9.298	9.310	9.364	9.410	9.455	9.482	9.522	9.571	9.617	9.617	9.639	9.662	9.639	9.636	9.632	9.679	9.624	9.611	9.535	9.469	29.513
23	9.418	9.377	9.352	9.337	9.300	9.285	9.259	9.259	9.261	9.258	9.263	9.288	9.296	9.280	9.275	9.298	9.331	9.348	9.371	9.382	9.412	9.434	9.466	9.476	29.335
24	9.492	9.514	9.515	9.534	9.532	9.516	9.477	9.457	9.433	9.393	9.381	9.359	9.369	9.369	9.371	9.377	9.432	9.472	9.516	9.544	9.574	9.579	9.597	9.604	29.475
25	9.596	9.598	9.603	9.591	9.582	9.589	9.570	9.579	9.586	9.574	9.554	9.547	9.523	9.488	9.453	9.447	9.423	9.392	9.362	9.330	9.282	9.229	9.203	9.174	29.470
26	9.156	9.126	9.110	9.099	9.100	9.098	9.100	9.119	9.118	9.097	9.109	9.113	9.113	9.116	9.119	9.128	9.129	9.113	9.104	9.081	9.074	9.044	9.028	8.954	29.099
27	8.953	8.913	8.874	8.806	8.730	8.628	8.574	8.515	8.453	8.413	8.400	8.512	8.613	8.556	8.553	8.564	8.560	8.518	8.480	8.470	8.411	8.478	8.531	8.559	28.588
28	8.577	8.537	8.586	8.574	8.574	8.546	8.554	8.567	8.569	8.567	8.567	8.557	8.555	8.552	8.569	8.587	8.597	8.602	8.610	8.636	8.657	8.661	8.684	8.696	28.583
29	8.704	8.716	8.722	8.717	8.729	8.728	8.725	8.719	8.732	8.743	8.758	8.758	8.799	8.778	8.759	8.849	8.852	8.874	8.910	8.947	9.001	9.063	9.066	9.082	28.921
30	9.072	9.060	9.041	8.984	8.951	8.934	8.928	8.929	8.941	8.954	8.976	8.982	9.007	9.032	9.052	9.079	9.112	9.142	9.165	9.185	9.191	9.206	9.215	9.240	29.056
31	9.247	9.264	9.273	9.274	9.305	9.330	9.346	9.379	9.398	9.387	9.400	9.405	9.397	9.382	9.402	9.406	9.418	9.425	9.409	9.411	9.419	9.413	9.426	9.433	29.373
Means	9.178	9.172	9.161	9.143	9.135	9.126	9.121	9.129	9.133	9.130	9.130	9.136	9.146	9.144	9.153	9.169	9.182	9.186	9.191	9.197	9.196	9.195	9.196	9.191	29.160

BAROMETER.

CORRECTED TO 32° AND REDUCED TO MEAN SEA LEVEL.

AUGUST 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid-night.	Mean.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	9.423	9.469	9.493	9.499	9.523	9.552	9.575	9.606	9.631	9.643	9.653	9.679	9.684	9.694	9.691	9.707	9.726	9.739	9.758	9.765	9.762	9.746	9.744	9.758	29.647
2	9.746	9.747	9.745	9.722	9.725	9.714	9.725	9.740	9.752	9.749	9.770	9.770	9.798	9.808	9.797	9.776	9.712	9.787	9.791	9.793	9.766	9.728	9.692	9.654	29.754
3	9.598	9.548	9.485	9.398	9.339	9.282	9.218	9.169	9.111	9.062	9.027	8.982	8.962	8.939	8.954	9.002	9.038	9.066	9.108	9.112	9.110	9.094	9.084	9.086	29.157
4	9.086	9.069	9.048	9.048	9.032	9.044	9.073	9.130	9.178	9.210	9.267	9.277	9.297	9.291	9.305	9.324	9.316	9.298	9.299	9.289	9.258	9.208	9.179	9.158	29.195
5	9.126	9.091	9.077	9.065	9.052	9.058	9.041	9.052	9.049	9.018	8.996	8.962	8.947	8.921	8.932	8.914	8.941	8.949	8.934	8.919	8.901	8.884	8.869	8.867	28.982
6	8.853	8.834	8.806	8.774	8.747	8.724	8.702	8.664	8.650	8.615	8.587	8.570	8.562	8.543	8.528	8.505	8.504	8.505	8.508	8.503	8.519	8.539	8.551	8.582	28.620
7	8.595	8.627	8.661	8.670	8.655	8.699	8.736	8.759	8.828	8.857	8.879	8.928	8.968	8.983	9.008	9.045	9.079	9.114	9.140	9.172	9.196	9.240	9.248	9.284	28.932
8	9.284	9.313	9.337	9.323	9.348	9.351	9.359	9.377	9.391	9.401	9.441	9.458	9.472	9.468	9.462	9.468	9.473	9.481	9.483	9.502	9.501	9.488	9.497	9.501	29.424
9	9.471	9.468	9.480	9.451	9.445	9.449	9.444	9.447	9.441	9.451	9.436	9.429	9.429	9.401	9.396	9.397	9.391	9.382	9.373	9.374	9.354	9.353	9.313	9.307	29.412
10	9.309	9.291	9.241	9.231	9.218	9.216	9.210	9.212	9.215	9.213	9.198	9.179	9.174	9.165	9.152	9.139	9.146	9.166	9.157	9.153	9.137	9.127	9.132	9.103	29.187
11	9.093	9.051	9.016	9.031	9.004	9.000	9.005	9.002	9.007	9.015	9.017	9.019	9.025	9.017	9.036	9.022	9.032	9.025	9.021	9.021	9.034	9.023	9.008	8.998	29.023
12	8.998	9.002	9.001	9.032	8.981	8.999	9.029	9.085	9.085	9.104	9.136	9.141	9.164	9.177	9.182	9.183	9.205	9.212	9.209	9.219	9.236	9.242	9.255	9.269	29.131
13	9.292	9.323	9.344	9.364	9.370	9.386	9.389	9.410	9.397	9.412	9.406	9.426	9.458	9.517	9.542	9.562	9.597	9.611	9.621	9.634	9.638	9.638	9.651	9.668	29.496
14	9.670	9.679	9.696	9.698	9.709	9.717	9.714	9.727	9.743	9.737	9.742	9.734	9.750	9.738	9.747	9.742	9.699	9.700	9.693	9.679	9.634	9.602	9.590	9.581	29.697
15	9.563	9.554	9.558	9.538	9.517	9.503	9.522	9.566	9.526	9.501	9.534	9.523	9.500	9.511	9.516	9.501	9.504	9.500	9.500	9.508	9.519	9.493	9.479	9.476	29.517
16	9.457	9.451	9.457	9.454	9.453	9.451	9.460	9.479	9.491	9.486	9.491	9.470	9.488	9.475	9.477	9.469	9.474	9.467	9.472	9.469	9.458	9.434	9.429	9.406	29.463
17	9.106	9.395	9.376	9.364	9.349	9.324	9.309	9.294	9.276	9.249	9.231	9.200	9.192	9.169	9.175	9.133	9.096	9.072	9.023	9.013	8.973	8.950	8.909	8.880	29.182
18	8.837	8.792	8.774	8.743	8.725	8.717	8.689	8.685	8.734	8.745	8.752	8.786	8.788	8.783	8.781	8.779	8.804	8.836	8.844	8.862	8.874	8.894	8.921	8.931	28.795
19	8.939	8.949	8.957	8.963	8.971	8.997	9.034	9.056	9.087	9.103	9.143	9.173	9.186	9.212	9.224	9.263	9.272	9.308	9.320	9.343	9.360	9.355	9.358	9.366	29.164
20	9.377	9.371	9.381	9.384	9.398	9.422	9.456	9.489	9.500	9.532	9.531	9.560	9.592	9.613	9.635	9.698	9.696	9.734	9.750	9.783	9.822	9.824	9.835	9.858	29.583
21	9.871	9.902	9.927	9.933	9.949	9.959	9.977	0.003	0.011	0.015	0.069	0.013	0.021	9.996	9.999	0.006	0.007	0.007	0.004	9.992	9.988	9.955	9.936	9.930	29.975
22	9.925	9.904	9.884	9.873	9.862	9.850	9.826	9.837	9.814	9.809	9.788	9.773	9.745	9.716	9.701	9.675	9.649	9.639	9.605	9.594	9.569	9.520	9.489	9.455	29.729
23	9.442	9.418	9.373	9.347	9.330	9.299	9.292	9.248	9.241	9.227	9.213	9.192	9.158	9.119	9.081	9.044	9.000	8.949	8.908	8.875	8.842	8.808	8.788	8.769	29.123
24	8.750	8.754	8.747	8.727	8.711	8.695	8.681	8.677	8.679	8.665	8.653	8.650	8.659	8.659	8.650	8.666	8.686	8.721	8.728	8.738	8.750	8.764	8.774	8.766	28.706
25	8.804	8.814	8.828	8.848	8.864	8.890	8.911	8.949	8.978	8.972	8.988	9.000	9.002	9.049	9.072	9.079	9.111	9.131	9.139	9.167	9.172	9.170	9.171	9.204	29.013
26	9.224	9.231	9.251	9.252	9.278	9.289	9.291	9.308	9.311	9.317	9.320	9.310	9.322	9.312	9.314	9.291	9.299	9.303	9.306	9.293	9.274	9.252	9.253	9.260	29.286
27	9.260	9.228	9.218	9.214	9.203	9.201	9.194	9.193	9.209	9.212	9.227	9.215	9.226	9.225	9.217	9.226	9.228	9.258	9.256	9.257	9.281	9.288	9.287	9.286	29.234
28	9.299	9.318	9.311	9.305	9.317	9.317	9.324	9.336	9.346	9.350	9.354	9.356	9.375	9.377	9.385	9.389	9.401	9.403	9.394	9.392	9.414	9.413	9.422	9.428	29.364
29	9.427	9.434	9.437	9.425	9.424	9.428	9.433	9.429	9.428	9.425	9.417	9.419	9.419	9.416	9.399	9.382	9.376	9.376	9.387	9.347	9.351	9.344	9.342	9.316	29.399
30	9.313	9.301	9.292	9.274	9.264	9.243	9.274	9.285	9.278	9.279	9.274	9.266	9.270	9.293	9.287	9.287	9.299	9.310	9.306	9.315	9.318	9.319	9.327	9.320	29.291
31	9.307	9.306	9.322	9.318	9.339	9.343	9.370	9.359	9.359	9.375	9.381	9.373	9.372	9.382	9.384	9.384	9.398	9.408	9.414	9.438	9.441	9.451	9.442	9.449	29.380
Means	9.282	9.279	9.276	9.267	9.261	9.262	9.267	9.277	9.281	9.282	9.286	9.285	9.291	9.289	9.291	9.292	9.299	9.305	9.305	9.307	9.305	9.295	9.290	9.288	29.286

BAROMETER.

CORRECTED TO 32° AND REDUCED TO MEAN SEA LEVEL.

SEPTEMBER 1903.

	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	9.450	9.452	9.454	9.456	9.451	9.448	9.453	9.468	9.469	9.476	9.461	9.464	9.464	9.445	9.448	9.449	9.461	9.457	9.452	9.453	9.450	9.449	9.437	9.429	29.454
2	9.420	9.410	9.411	9.401	9.405	9.391	9.387	9.399	9.405	9.406	9.410	9.401	9.389	9.389	9.395	9.386	9.393	9.384	9.381	9.408	9.409	9.396	9.384	9.357	29.396
3	9.336	9.319	9.307	9.293	9.273	9.250	9.248	9.210	9.177	9.150	9.130	9.084	9.068	9.100	9.104	9.148	9.173	9.241	9.269	9.295	9.335	9.340	9.353	9.374	29.232
4	9.401	9.423	9.431	9.431	9.453	9.475	9.489	9.504	9.516	9.523	9.539	9.523	9.558	9.550	9.558	9.586	9.602	9.617	9.616	9.614	9.619	9.594	9.582	9.561	29.532
5	9.547	9.545	9.514	9.520	9.506	9.510	9.510	9.510	9.509	9.513	9.523	9.553	9.565	9.583	9.572	9.557	9.554	9.562	9.551	9.591	9.565	9.569	9.566	9.567	29.544
6	9.549	9.511	9.504	9.472	9.449	9.445	9.419	9.408	9.377	9.355	9.311	9.288	9.278	9.248	9.208	9.191	9.195	9.199	9.229	9.254	9.306	9.326	9.359	9.374	29.344
7	9.389	9.419	9.437	9.433	9.451	9.473	9.501	9.533	9.566	9.611	9.646	9.685	9.716	9.729	9.743	9.784	9.820	9.825	9.884	9.884	9.900	9.917	9.910	9.905	29.673
8	9.930	9.922	9.920	9.907	9.903	9.906	9.909	9.899	9.892	9.908	9.904	9.919	9.909	9.920	9.917	9.918	9.920	9.915	9.896	9.888	9.904	9.901	9.903	9.907	29.908
9	9.878	9.875	9.848	9.825	9.802	9.782	9.779	9.755	9.749	9.763	9.726	9.703	9.693	9.667	9.640	9.633	9.611	9.603	9.589	9.570	9.551	9.516	9.492	9.445	29.687
10	9.419	9.384	9.346	9.291	9.257	9.258	9.250	9.227	9.230	9.234	9.230	9.207	9.195	9.186	9.183	9.182	9.142	9.151	9.146	9.157	9.153	9.169	9.156	9.153	29.221
11	9.171	9.171	9.190	9.187	9.202	9.204	9.216	9.208	9.233	9.234	9.221	9.202	9.200	9.196	9.177	9.143	9.137	9.129	9.120	9.107	9.114	9.108	9.091	9.074	29.168
12	9.065	9.051	9.033	9.006	8.998	8.988	8.973	8.964	8.950	8.931	8.928	8.919	8.910	8.892	8.889	8.877	8.893	8.896	8.893	8.888	8.889	8.889	8.889	8.889	29.938
13	8.877	8.860	8.862	8.852	8.853	8.850	8.854	8.836	8.853	8.849	8.866	8.866	8.852	8.852	8.848	8.844	8.832	8.861	8.867	8.873	8.876	8.876	8.871	8.867	29.859
14	8.870	8.871	8.872	8.868	8.871	8.858	8.898	8.922	8.924	8.942	8.947	8.971	8.979	8.984	8.985	8.998	9.022	9.043	9.066	9.060	9.065	9.077	9.044	9.069	29.968
15	9.080	9.087	9.078	9.069	9.070	9.070	9.084	9.089	9.070	9.062	9.069	9.067	9.059	9.044	9.054	9.051	9.031	9.033	9.049	9.052	9.058	9.055	9.038	9.052	29.060
16	9.055	9.048	9.041	9.056	9.044	9.045	9.050	9.072	9.069	9.076	9.071	9.090	9.089	9.088	9.095	9.106	9.105	9.121	9.147	9.159	9.177	9.178	9.190	9.195	29.099
17	9.204	9.210	9.227	9.224	9.250	9.266	9.291	9.317	9.345	9.346	9.359	9.363	9.383	9.412	9.431	9.445	9.464	9.466	9.466	9.463	9.454	9.447	9.421	9.396	29.360
18	9.366	9.327	9.300	9.266	9.242	9.227	9.187	9.201	9.179	9.188	9.185	9.190	9.184	9.159	9.120	9.071	9.046	9.010	9.019	9.024	9.061	9.076	9.093	9.116	29.160
19	9.108	9.117	9.153	9.163	9.208	9.245	9.246	9.249	9.243	9.232	9.216	9.190	9.166	9.143	9.120	9.098	9.076	9.049	9.018	8.992	8.943	8.937	8.916	8.897	29.114
20	8.898	8.897	8.905	8.954	9.005	9.043	9.082	9.126	9.165	9.189	9.204	9.210	9.232	9.246	9.255	9.264	9.287	9.274	9.287	9.297	9.309	9.313	9.318	9.335	29.171
21	9.339	9.336	9.338	9.341	9.353	9.357	9.352	9.373	9.369	9.384	9.382	9.382	9.381	9.383	9.379	9.383	9.386	9.380	9.393	9.386	9.394	9.404	9.395	9.394	29.374
22	9.392	9.393	9.392	9.406	9.399	9.418	9.419	9.426	9.444	9.455	9.460	9.483	9.463	9.488	9.478	9.493	9.453	9.485	9.490	9.475	9.483	9.474	9.461	9.454	29.450
23	9.404	9.377	9.344	9.306	9.256	9.233	9.198	9.159	9.096	9.068	9.031	9.999	9.971	9.951	9.933	9.939	9.936	9.974	9.006	9.051	9.088	9.151	9.196	9.241	29.122
24	9.321	9.376	9.451	9.533	9.583	9.643	9.701	9.750	9.777	9.814	9.827	9.842	9.864	9.865	9.865	9.858	9.823	9.805	9.809	9.784	9.759	9.732	9.698	9.659	29.714
25	9.593	9.537	9.483	9.423	9.323	9.240	9.126	9.066	9.011	8.934	8.869	8.843	8.788	8.764	8.748	8.717	8.707	8.686	8.662	8.639	8.644	8.623	8.617	8.606	29.843
26	8.583	8.576	8.566	8.560	8.555	8.553	8.553	8.575	8.601	8.614	8.643	8.668	8.691	8.717	8.751	8.785	8.822	8.853	8.892	8.846	8.973	9.013	9.049	9.059	28.735
27	9.129	9.152	9.202	9.224	9.238	9.255	9.267	9.273	9.276	9.258	9.249	9.242	9.219	9.195	9.171	9.140	9.113	9.072	9.034	9.011	9.031	9.019	9.023	9.004	29.158
28	8.981	8.948	8.915	8.882	8.834	8.806	8.756	8.699	8.651	8.598	8.560	8.548	8.489	8.468	8.457	8.455	8.456	8.468	8.492	8.523	8.554	8.611	8.668	8.724	28.646
29	8.779	8.832	8.859	8.911	8.961	9.004	9.041	9.099	9.099	9.124	9.149	9.169	9.188	9.196	9.209	9.226	9.241	9.245	9.244	9.239	9.235	9.228	9.213	9.210	29.111
30	9.183	9.172	9.158	9.141	9.109	9.093	9.076	9.046	9.036	8.999	8.992	8.965	8.960	8.948	8.938	8.957	8.968	8.966	8.965	8.947	8.938	8.933	8.940	8.953	29.016
Means	9.257	9.253	9.251	9.247	9.243	9.246	9.244	9.244	9.243	9.240	9.237	9.233	9.230	9.227	9.222	9.222	9.225	9.226	9.231	9.234	9.241	9.244	9.242	9.243	29.239

BAROMETER.

CORRECTED TO 32° AND REDUCED TO MEAN SEA LEVEL.

OCTOBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid-night.	Mean.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	8.987	9.013	9.018	9.056	9.040	9.032	9.012	8.990	8.924	8.964	8.818	8.771	8.743	8.732	8.777	8.811	8.841	8.869	8.911	8.941	8.973	9.002	9.041	9.050	28.927
2	9.083	9.091	9.105	9.121	9.138	9.160	9.183	9.201	9.239	9.253	9.273	9.282	9.397	9.339	9.359	9.397	9.435	9.487	9.535	9.588	9.622	9.669	9.708	9.748	29.346
3	9.785	9.809	9.842	9.876	9.908	9.927	9.957	9.986	0.018	0.025	0.038	0.047	0.048	0.053	0.048	0.064	0.078	0.092	0.095	0.103	0.113	0.109	0.088	0.070	30.016
4	0.052	0.048	0.032	0.013	9.988	9.991	9.984	9.971	9.965	9.940	9.932	9.929	9.890	9.860	9.831	9.800	9.782	9.757	9.747	9.748	9.727	9.725	9.724	0.734	29.882
5	9.730	9.718	9.721	9.716	9.704	9.707	9.705	9.700	9.705	9.708	9.700	9.679	9.660	9.638	9.625	9.606	9.603	9.587	9.583	9.584	9.576	9.571	9.566	9.557	29.652
6	9.538	9.514	9.501	9.487	9.456	9.453	9.451	9.426	9.426	9.416	9.417	9.412	9.406	9.396	9.381	9.383	9.377	9.381	9.377	9.367	9.352	9.343	9.360	9.362	29.416
7	9.360	9.360	9.352	9.355	9.343	9.358	9.356	9.357	9.360	9.361	9.358	9.354	9.343	9.339	9.331	9.326	9.323	9.317	9.310	9.301	9.300	9.275	9.267	9.251	29.332
8	9.239	9.234	9.219	9.196	9.183	9.177	9.169	9.150	9.135	9.134	9.114	9.092	9.086	9.084	9.055	9.045	9.044	9.037	9.036	9.026	9.019	9.011	8.995	8.977	29.102
9	8.961	8.945	8.932	8.925	8.921	8.912	8.904	8.896	8.887	8.887	8.886	8.887	8.892	8.887	8.884	8.887	8.893	8.882	8.885	8.880	8.875	8.868	8.872	8.872	28.897
10	8.866	8.861	8.862	8.861	8.867	8.865	8.870	8.875	8.879	8.880	8.883	8.897	8.897	8.902	8.904	8.922	8.915	8.921	8.919	8.936	8.930	8.950	8.963	8.970	28.901
11	8.967	8.979	8.980	8.985	8.996	9.014	9.026	9.047	9.061	9.065	9.087	9.095	9.107	9.114	9.129	9.140	9.161	9.171	9.176	9.193	9.212	9.217	9.225	9.233	29.099
12	9.239	9.243	9.246	9.262	9.281	9.301	9.315	9.329	9.329	9.346	9.365	9.378	9.390	9.394	9.406	9.433	9.437	9.457	9.470	9.484	9.499	9.518	9.506	9.534	29.382
13	9.541	9.549	9.553	9.553	9.559	9.556	9.554	9.552	9.555	9.553	9.533	9.521	9.511	9.492	9.470	9.476	9.475	9.477	9.473	9.474	9.485	9.492	9.495	9.505	29.517
14	9.501	9.511	9.521	9.544	9.555	9.561	9.579	9.596	9.611	9.631	9.646	9.674	9.694	9.714	9.737	9.743	9.758	9.763	9.769	9.766	9.783	9.777	9.773	9.773	29.666
15	9.764	9.758	9.758	9.758	9.758	9.750	9.741	9.735	9.703	9.677	9.656	9.634	9.625	9.610	9.597	9.596	9.587	9.623	9.641	9.640	9.647	9.652	9.649	9.652	29.675
16	9.647	9.644	9.647	9.640	9.625	9.631	9.635	9.626	9.617	9.598	9.584	9.593	9.587	9.583	9.590	9.586	9.583	9.591	9.587	9.588	9.588	9.591	9.589	9.595	29.606
17	9.602	9.596	9.593	9.583	9.589	9.607	9.614	9.611	9.623	9.620	9.625	9.626	9.630	9.623	9.616	9.614	9.596	9.594	9.602	9.601	9.589	9.575	9.576	9.576	29.603
18	9.551	9.544	9.531	9.510	9.501	9.494	9.491	9.471	9.457	9.448	9.434	9.435	9.431	9.418	9.414	9.414	9.416	9.403	9.430	9.410	9.452	9.477	9.487	9.496	29.464
19	9.501	9.504	9.514	9.522	9.530	9.531	9.531	9.539	9.544	9.539	9.527	9.507	9.514	9.489	9.462	9.452	9.439	9.407	9.394	9.370	9.379	9.390	9.414	9.427	29.476
20	9.432	9.444	9.443	9.445	9.440	9.440	9.430	9.406	9.386	9.362	9.365	9.353	9.394	9.405	9.415	9.438	9.458	9.485	9.500	9.534	9.557	9.583	9.593	9.609	29.456
21	9.626	9.638	9.653	9.673	9.701	9.714	9.728	9.739	9.749	9.758	9.765	9.769	9.776	9.774	9.778	9.778	9.780	9.785	9.784	9.779	9.760	9.724	9.730	9.703	29.736
22	9.688	9.668	9.650	9.661	9.633	9.623	9.613	9.590	9.582	9.566	9.543	9.523	9.490	9.465	9.440	9.420	9.402	9.387	9.366	9.363	9.346	9.315	9.319	9.308	29.498
23	9.309	9.304	9.306	9.316	9.326	9.321	9.306	9.298	9.295	9.266	9.241	9.201	9.180	9.131	9.057	8.953	8.879	8.823	8.777	8.731	8.681	8.643	8.617	8.596	29.065
24	8.594	8.602	8.612	8.621	8.641	8.642	8.642	8.617	8.600	8.594	8.577	8.557	8.535	8.514	8.483	8.462	8.444	8.459	8.482	8.486	8.506	8.520	8.521	8.521	28.552
25	8.521	8.530	8.530	8.539	8.546	8.531	8.586	8.611	8.629	8.656	8.679	8.703	8.720	8.742	8.763	8.777	8.797	8.817	8.852	8.872	8.900	8.917	8.918	8.969	28.714
26	8.954	9.021	9.026	9.081	9.088	9.112	9.126	9.123	9.151	9.168	9.192	9.202	9.218	9.228	9.248	9.245	9.252	9.269	9.280	9.298	9.309	9.288	9.293	9.308	29.188
27	9.338	9.369	9.389	9.410	9.439	9.453	9.468	9.483	9.513	9.508	9.498	9.477	9.468	9.455	9.460	9.474	9.487	9.494	9.519	9.534	9.528	9.526	9.526	9.538	29.473
28	9.553	9.543	9.549	9.557	9.542	9.537	9.520	9.515	9.489	9.463	9.466	9.447	9.435	9.397	9.348	9.328	9.275	9.260	9.253	9.239	9.228	9.210	9.196	9.170	29.397
29	9.153	9.145	9.135	9.143	9.145	9.170	9.213	9.228	9.231	9.255	9.262	9.259	9.247	9.242	9.214	9.181	9.141	9.115	9.089	9.042	9.011	8.987	8.948	8.904	29.144
30	8.857	8.826	8.791	8.776	8.782	8.772	8.812	8.831	8.868	8.917	8.962	8.994	9.042	9.097	9.135	9.176	9.213	9.263	9.272	9.326	9.352	9.375	9.407	9.428	29.053
31	9.456	9.475	9.489	9.521	9.522	9.515	9.525	9.520	9.488	9.477	9.448	9.432	9.394	9.358	9.304	9.264	9.203	9.133	9.083	9.020	8.970	8.908	8.856	8.815	29.299
Means	9.336	9.338	9.340	9.345	9.347	9.350	9.356	9.355	9.355	9.353	9.351	9.347	9.344	9.338	9.331	9.329	9.325	9.326	9.329	9.331	9.332	9.329	9.331	9.331	29.340

BAROMETER.

CORRECTED TO 32° AND REDUCED TO MEAN SEA LEVEL.

NOVEMBER 1903.

	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	8.772	8.745	8.704	8.681	8.652	8.571	8.601	8.567	8.565	8.542	8.522	8.526	8.511	8.514	8.529	8.570	8.642	8.671	8.707	8.801	8.853	8.918	8.975	9.037	9.087	9.137	9.187	9.237	9.287	9.337	28.674
2	9.087	9.122	9.172	9.255	9.278	9.293	9.316	9.359	9.385	9.407	9.441	9.460	9.487	9.532	9.553	9.561	9.573	9.592	9.611	9.621	9.633	9.641	9.644	9.652	9.652	9.652	9.652	9.652	9.652	9.652	29.445
3	9.661	9.656	9.664	9.664	9.673	9.685	9.693	9.695	9.714	9.725	9.734	9.733	9.752	9.764	9.769	9.763	9.773	9.766	9.763	9.753	9.735	9.723	9.717	9.707	9.697	9.687	9.677	9.667	9.657	9.647	29.720
4	9.687	9.665	9.656	9.649	9.625	9.620	9.602	9.574	9.550	9.523	9.497	9.471	9.471	9.431	9.409	9.384	9.359	9.330	9.307	9.270	9.232	9.214	9.188	9.184	9.184	9.184	9.184	9.184	9.184	9.184	29.454
5	9.187	9.177	9.177	9.187	9.177	9.217	9.282	9.347	9.392	9.442	9.498	9.528	9.587	9.619	9.667	9.683	9.652	9.710	9.736	9.741	9.743	9.747	9.747	9.755	9.755	9.755	9.755	9.755	9.755	9.755	29.500
6	9.745	9.717	9.722	9.707	9.684	9.657	9.627	9.584	9.548	9.488	9.465	9.444	9.429	9.400	9.342	9.280	9.235	9.207	9.184	9.200	9.209	9.249	9.266	9.289	9.249	9.249	9.249	9.249	9.249	9.249	29.449
7	9.303	9.298	9.313	9.331	9.338	9.338	9.363	9.377	9.398	9.418	9.437	9.453	9.482	9.502	9.512	9.536	9.547	9.556	9.560	9.577	9.579	9.584	9.596	9.606	9.606	9.606	9.606	9.606	9.606	9.606	29.459
8	9.608	9.612	9.613	9.615	9.617	9.618	9.628	9.629	9.624	9.629	9.626	9.638	9.645	9.655	9.658	9.654	9.655	9.660	9.665	9.662	9.656	9.667	9.678	9.684	9.684	9.684	9.684	9.684	9.684	9.684	29.641
9	9.663	9.660	9.625	9.650	9.660	9.663	9.661	9.667	9.660	9.650	9.638	9.618	9.623	9.619	9.604	9.602	9.596	9.574	9.560	9.553	9.524	9.504	9.481	9.430	9.430	9.430	9.430	9.430	9.430	9.430	29.604
10	9.424	9.424	9.379	9.356	9.339	9.308	9.295	9.265	9.223	9.193	9.147	9.099	9.054	9.015	8.981	8.916	8.866	8.854	8.857	8.894	8.890	8.897	8.908	8.921	8.921	8.921	8.921	8.921	8.921	8.921	29.104
11	8.921	8.924	8.954	8.954	8.972	8.983	8.975	8.988	8.981	8.975	8.969	8.974	8.984	8.974	8.983	8.985	8.991	8.992	8.996	9.006	9.006	9.000	9.000	9.015	9.015	9.015	9.015	9.015	9.015	9.015	28.975
12	9.027	9.027	9.029	9.041	9.047	9.051	9.051	9.045	9.031	9.011	8.975	8.946	8.908	8.855	8.807	8.768	8.743	8.746	8.747	8.751	8.738	8.749	8.753	8.742	8.742	8.742	8.742	8.742	8.742	8.742	28.900
13	8.731	8.718	8.719	8.734	8.733	8.745	8.736	8.742	8.726	8.718	8.740	8.728	8.737	8.755	8.771	8.756	8.773	8.778	8.799	8.807	8.813	8.816	8.830	8.815	8.815	8.815	8.815	8.815	8.815	8.815	28.759
14	8.811	8.777	8.752	8.742	8.688	8.648	8.617	8.585	8.553	8.512	8.456	8.428	8.391	8.362	8.352	8.338	8.350	8.381	8.410	8.421	8.443	8.479	8.506	8.554	8.554	8.554	8.554	8.554	8.554	8.554	28.523
15	8.602	8.600	8.705	8.730	8.754	8.750	8.763	8.742	8.756	8.776	8.799	8.834	8.880	8.938	8.985	9.024	9.079	9.130	9.159	9.169	9.180	9.195	9.173	9.149	9.149	9.149	9.149	9.149	9.149	9.149	28.914
16	9.121	9.058	9.001	8.990	8.980	8.971	8.992	9.006	9.009	9.010	9.003	8.996	9.002	8.969	8.958	8.961	8.984	8.988	9.012	9.027	9.040	9.049	9.074	9.079	9.079	9.079	9.079	9.079	9.079	9.079	29.013
17	9.086	9.087	9.093	9.105	9.075	9.091	9.061	9.052	9.030	9.004	9.000	8.997	8.987	8.993	8.985	8.992	8.983	8.977	8.993	8.995	9.032	9.050	9.081	9.107	9.107	9.107	9.107	9.107	9.107	9.107	29.034
18	9.150	9.217	9.264	9.316	9.363	9.426	9.469	9.521	9.562	9.618	9.682	9.717	9.759	9.789	9.813	9.832	9.857	9.861	9.880	9.879	9.872	9.885	9.877	9.874	9.874	9.874	9.874	9.874	9.874	9.874	29.645
19	9.881	9.873	9.883	9.883	9.883	9.884	9.878	9.873	9.865	9.864	9.860	9.837	9.840	9.840	9.826	9.807	9.796	9.788	9.781	9.759	9.711	9.671	9.656	9.620	9.616	9.616	9.616	9.616	9.616	9.616	29.816
20	9.959	9.586	9.562	9.533	9.512	9.469	9.446	9.415	9.373	9.341	9.305	9.300	9.309	9.317	9.322	9.335	9.340	9.333	9.327	9.339	9.333	9.332	9.328	9.323	9.323	9.323	9.323	9.323	9.323	9.323	29.391
21	9.304	9.286	9.269	9.254	9.228	9.214	9.225	9.207	9.185	9.167	9.163	9.162	9.169	9.145	9.109	9.101	9.088	9.058	9.001	8.993	8.950	8.909	8.845	8.781	8.717	8.653	8.589	8.525	8.461	8.397	29.117
22	8.749	8.688	8.688	8.694	8.679	8.659	8.661	8.713	8.754	8.803	8.857	8.882	8.937	8.951	8.954	8.963	8.931	8.899	8.860	8.807	8.800	8.786	8.778	8.778	8.778	8.778	8.778	8.778	8.778	8.778	28.803
23	8.749	8.743	8.762	8.780	8.794	8.799	8.795	8.803	8.821	8.823	8.821	8.831	8.835	8.865	8.858	8.859	8.859	8.846	8.846	8.834	8.816	8.810	8.776	8.757	8.757	8.757	8.757	8.757	8.757	8.757	28.812
24	8.723	8.732	8.726	8.728	8.731	8.717	8.716	8.732	8.754	8.783	8.808	8.840	8.871	8.886	8.913	8.928	8.959	8.967	8.974	9.002	9.033	9.058	9.075	9.077	9.077	9.077	9.077	9.077	9.077	9.077	28.864
25	9.076	9.084	9.090	9.129	9.096	9.103	9.111	9.120	9.113	9.111	9.085	9.081	9.075	9.063	9.033	9.012	8.991	8.955	8.943	8.924	8.890	8.839	8.805	8.766	8.724	8.680	8.636	8.592	8.548	8.504	29.020
26	8.736	8.709	8.684	8.661	8.654	8.625	8.624	8.618	8.616	8.615	8.607	8.621	8.639	8.648	8.658	8.673	8.692	8.710	8.706	8.708	8.727	8.724	8.722	8.724	8.724	8.724	8.724	8.724	8.724	8.724	28.671
27	8.727	8.730	8.742	8.747	8.752	8.762	8.783	8.799	8.836	8.842	8.849	8.864	8.878	8.880	8.888	8.893	8.910	8.914	8.924	8.921	8.919	8.915	8.916	8.910	8.910	8.910	8.910	8.910	8.910	8.910	28.846
28	8.902	8.893	8.861	8.875	8.862	8.857	8.848	8.838	8.835	8.833	8.832	8.826	8.821	8.815	8.815	8.816	8.823	8.823	8.829	8.826	8.821	8.818	8.820	8.813	8.813	8.813	8.813	8.813	8.813	8.813	28.838
29	8.805	8.799	8.788	8.796	8.755	8.775	8.763	8.756	8.755	8.746	8.740	8.731	8.737	8.740	8.743	8.742	8.741	8.732	8.742	8.745	8.742	8.744	8.737	8.736	8.736	8.736	8.736	8.736	8.736	8.736	28.755
30	8.739	8.740	8.739	8.754	8.768	8.776	8.761	8.781	8.784	8.801	8.809	8.818	8.829	8.832	8.837	8.845	8.858	8.859	8.863	8.864	8.865	8.855	8.844	8.841	8.841	8.841	8.841	8.841	8.841	8.841	28.811
Means	9.119	9.113	9.112	9.117	9.113	9.112	9.111	9.113	9.113	9.112	9.112	9.113	9.121	9.122	9.122	9.119	9.122	9.122	9.125	9.128	9.127	9.128	9.127	9.128	9.127	9.124	9.124	9.124	9.124	29.119	

BAROMETER.

CORRECTED TO 32° AND REDUCED TO MEAN SEA LEVEL.

DECEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	8.845	8.838	8.833	8.836	8.827	8.821	8.822	8.829	8.810	8.802	8.794	8.796	8.790	8.789	8.782	8.767	8.771	8.783	8.781	8.785	8.778	8.773	8.769	8.767	28.815
2	8.761	8.748	8.746	8.752	8.754	8.755	8.753	8.768	8.769	8.763	8.760	8.757	8.765	8.770	8.772	8.787	8.792	8.796	8.798	8.806	8.815	8.807	8.808	8.814	28.776
3	8.829	8.835	8.842	8.876	8.888	8.912	8.943	8.942	8.952	8.973	8.981	8.997	9.015	9.027	9.047	9.067	9.077	9.097	9.112	9.121	9.140	9.143	9.151	9.160	29.005
4	9.163	9.176	9.201	9.221	9.229	9.233	9.240	9.252	9.263	9.269	9.268	9.271	9.265	9.281	9.287	9.285	9.281	9.285	9.286	9.282	9.279	9.291	9.279	9.280	29.257
5	9.296	9.292	9.298	9.312	9.321	9.328	9.340	9.343	9.348	9.366	9.367	9.369	9.380	9.387	9.396	9.407	9.422	9.431	9.441	9.443	9.453	9.456	9.465	9.474	29.381
6	9.472	9.473	9.482	9.486	9.493	9.497	9.505	9.511	9.516	9.516	9.512	9.518	9.531	9.538	9.538	9.544	9.550	9.546	9.544	9.545	9.545	9.537	9.535	9.525	29.519
7	9.517	9.516	9.507	9.493	9.477	9.467	9.451	9.428	9.380	9.357	9.317	9.326	9.312	9.290	9.246	9.244	9.224	9.209	9.196	9.191	9.190	9.167	9.163	9.162	29.328
8	9.171	9.157	9.158	9.182	9.185	9.191	9.193	9.202	9.217	9.236	9.226	9.242	9.255	9.258	9.260	9.263	9.266	9.266	9.270	9.263	9.260	9.212	9.236	9.232	29.226
9	9.216	9.202	9.172	9.165	9.145	9.133	9.141	9.123	9.118	9.106	9.090	9.079	9.055	9.060	9.048	9.040	9.032	9.039	9.043	9.046	9.048	9.018	9.050	9.059	29.094
10	9.069	9.079	9.099	9.118	9.144	9.172	9.186	9.203	9.207	9.213	9.224	9.228	9.243	9.247	9.249	9.253	9.259	9.264	9.262	9.256	9.248	9.247	9.231	9.230	29.205
11	9.214	9.209	9.204	9.194	9.182	9.175	9.177	9.157	9.135	9.121	9.108	9.110	9.100	9.089	9.077	9.080	9.074	9.079	9.094	9.089	9.102	9.127	9.131	9.141	29.131
12	9.158	9.178	9.204	9.221	9.251	9.281	9.313	9.334	9.359	9.377	9.390	9.405	9.431	9.444	9.461	9.477	9.472	9.481	9.489	9.485	9.486	9.460	9.442	9.432	29.376
13	9.406	9.368	9.340	9.312	9.258	9.234	9.188	9.158	9.120	9.099	9.097	9.103	9.110	9.146	9.189	9.249	9.302	9.351	9.415	9.446	9.494	9.560	9.591	9.621	29.298
14	9.645	9.677	9.707	9.750	9.773	9.803	9.826	9.836	9.853	9.846	9.849	9.852	9.865	9.866	9.859	9.866	9.860	9.868	9.864	9.852	9.834	9.827	9.812	9.812	29.817
15	9.767	9.735	9.701	9.693	9.692	9.673	9.654	9.638	9.615	9.600	9.576	9.567	9.541	9.541	9.527	9.517	9.501	9.462	9.442	9.391	9.340	9.324	9.289	9.278	29.544
16	9.260	9.256	9.238	9.218	9.187	9.169	9.117	9.073	9.015	8.980	8.933	8.900	8.882	8.849	8.821	8.823	8.839	8.864	9.131	9.255	9.344	9.434	9.511	9.569	29.116
17	9.610	9.643	9.677	9.646	9.712	9.728	9.732	9.732	9.730	9.751	9.726	9.725	9.741	9.738	9.734	9.729	9.719	9.718	9.711	9.700	9.683	9.660	9.638	9.601	29.700
18	9.574	9.575	9.551	9.522	9.507	9.469	9.441	9.404	9.407	9.409	9.395	9.402	9.402	9.406	9.415	9.419	9.425	9.427	9.428	9.429	9.414	9.394	9.386	9.373	29.441
19	9.355	9.322	9.320	9.291	9.317	9.322	9.327	9.330	9.332	9.322	9.328	9.326	9.315	9.303	9.301	9.285	9.252	9.217	9.177	9.162	9.102	9.065	9.031	8.982	29.253
20	8.944	8.935	8.909	8.891	8.879	8.885	8.876	8.869	8.864	8.869	8.865	8.868	8.856	8.864	8.840	8.853	8.818	8.797	8.768	8.735	8.699	8.659	8.632	8.574	28.822
21	8.519	8.498	8.487	8.472	8.457	8.445	8.453	8.479	8.507	8.515	8.522	8.540	8.567	8.585	8.605	8.637	8.664	8.686	8.702	8.707	8.729	8.733	8.752	8.774	28.585
22	8.783	8.803	8.807	8.818	8.806	8.807	8.776	8.750	8.729	8.720	8.702	8.683	8.657	8.638	8.623	8.626	8.633	8.640	8.650	8.670	8.678	8.680	8.673	8.648	28.708
23	8.617	8.678	8.693	8.692	8.703	8.709	8.718	8.737	8.763	8.778	8.788	8.792	8.802	8.806	8.806	8.795	8.795	8.794	8.785	8.762	8.732	8.711	8.695	8.685	28.744
24	8.683	8.687	8.676	8.657	8.639	8.635	8.615	8.587	8.563	8.540	8.528	8.518	8.506	8.488	8.488	8.498	8.504	8.546	8.569	8.600	8.655	8.698	8.742	8.787	28.600
25	8.820	8.848	8.900	8.972	8.999	9.047	9.061	9.084	9.088	9.095	9.097	9.101	9.117	9.133	9.150	9.163	9.186	9.210	9.227	9.261	9.285	9.303	9.322	9.340	29.117
26	9.346	9.364	9.377	9.389	9.403	9.406	9.418	9.419	9.416	9.421	9.426	9.422	9.416	9.393	9.380	9.370	9.369	9.361	9.350	9.338	9.322	9.301	9.291	9.285	29.374
27	9.274	9.262	9.254	9.267	9.264	9.267	9.277	9.274	9.271	9.267	9.266	9.280	9.279	9.281	9.278	9.271	9.276	9.282	9.286	9.289	9.289	9.282	9.283	9.277	29.275
28	9.280	9.279	9.283	9.301	9.309	9.319	9.325	9.340	9.337	9.343	9.340	9.338	9.342	9.337	9.329	9.326	9.323	9.318	9.299	9.294	9.269	9.256	9.244	9.230	29.307
29	9.207	9.189	9.177	9.185	9.181	9.183	9.195	9.215	9.234	9.247	9.271	9.292	9.292	9.304	9.332	9.382	9.407	9.430	9.462	9.492	9.510	9.531	9.544	9.561	29.572
30	9.594	9.615	9.617	9.656	9.665	9.680	9.696	9.717	9.733	9.739	9.744	9.756	9.773	9.775	9.789	9.789	9.794	9.801	9.798	9.794	9.788	9.770	9.754	9.692	29.730
31	9.735	9.707	9.686	9.673	9.651	9.614	9.557	9.514	9.456	9.417	9.360	9.293	9.246	9.212	9.196	9.174	9.175	9.152	9.120	9.067	9.038	8.998	8.965	8.925	29.330
Means	9.199	9.198	9.198	9.203	9.203	9.205	9.204	9.202	9.197	9.195	9.190	9.189	9.189	9.190	9.190	9.193	9.196	9.204	9.211	9.212	9.212	9.210	9.208	9.204	29.200

BAROMETER.

CORRECTED TO 32° AND REDUCED TO MEAN SEA LEVEL.

JANUARY 1904.

	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	8.907	8.871	8.922	8.918	8.913	8.893	8.911	8.921	8.965	9.002	9.053	9.084	9.128	9.156	9.196	9.229	9.216	9.273	9.281	9.302	9.306	9.310	9.334	9.356	9.366	29.103							
2	9.348	9.347	9.344	9.346	9.389	9.414	9.419	9.413	9.411	9.411	9.390	9.380	9.357	9.322	9.314	9.311	9.311	9.307	9.277	9.249	9.207	9.194	9.159	9.140	9.140	29.319							
3	9.114	9.092	9.027	8.993	8.989	8.947	8.921	8.890	8.875	8.859	8.856	8.864	8.874	8.870	8.879	8.890	8.905	8.930	8.955	8.969	8.983	9.006	9.024	9.043	28.947								
4	9.058	9.062	9.074	9.087	9.108	9.122	9.128	9.132	9.137	9.151	9.151	9.157	9.182	9.183	9.190	9.195	9.197	9.206	9.208	9.197	9.213	9.218	9.222	9.217	29.158								
5	9.213	9.215	9.222	9.224	9.227	9.233	9.242	9.243	9.245	9.243	9.243	9.240	9.248	9.245	9.242	9.234	9.234	9.238	9.245	9.239	9.240	9.242	9.240	9.247	29.237								
6	9.238	9.231	9.246	9.252	9.259	9.262	9.282	9.297	9.304	9.312	9.321	9.330	9.334	9.347	9.364	9.385	9.386	9.403	9.409	9.431	9.441	9.446	9.456	9.461	29.342								
7	9.464	9.468	9.468	9.472	9.492	9.496	9.492	9.506	9.505	9.499	9.512	9.494	9.494	9.487	9.489	9.485	9.487	9.479	9.480	9.448	9.417	9.370	9.315	9.273	29.462								
8	9.239	9.214	9.209	9.246	9.257	9.298	9.329	9.355	9.377	9.403	9.418	9.432	9.447	9.458	9.472	9.449	9.443	9.423	9.387	9.339	9.307	9.241	9.195	9.159	29.337								
9	9.165	9.184	9.235	9.274	9.305	9.332	9.339	9.376	9.377	9.379	9.388	9.397	9.421	9.437	9.426	9.409	9.432	9.432	9.410	9.365	9.360	9.337	9.314	9.276	29.349								
10	9.246	9.207	9.163	9.124	9.080	9.078	9.073	9.069	9.082	9.078	9.099	9.120	9.141	9.151	9.163	9.177	9.193	9.195	9.198	9.177	9.168	9.137	9.118	9.079	29.138								
11	9.059	9.039	9.014	9.018	9.034	9.041	9.052	9.066	9.066	9.078	9.090	9.099	9.112	9.130	9.135	9.146	9.159	9.16	9.164	9.181	9.188	9.178	9.189	9.188	29.108								
12	9.181	9.181	9.177	9.178	9.184	9.182	9.184	9.182	9.185	9.179	9.177	9.179	9.193	9.210	9.237	9.256	9.269	9.281	9.307	9.324	9.355	9.334	9.331	9.323	29.232								
13	9.325	9.304	9.291	9.277	9.254	9.227	9.204	9.173	9.166	9.155	9.161	9.186	9.206	9.236	9.245	9.255	9.291	9.295	9.304	9.304	9.316	9.322	9.319	9.316	29.256								
14	9.308	9.306	9.303	9.306	9.300	9.304	9.311	9.307	9.323	9.320	9.314	9.314	9.322	9.332	9.318	9.320	9.329	9.351	9.344	9.342	9.333	9.350	9.353	9.349	29.324								
15	9.344	9.349	9.354	9.370	9.379	9.388	9.390	9.397	9.401	9.409	9.415	9.424	9.431	9.443	9.450	9.460	9.466	9.478	9.485	9.497	9.499	9.501	9.505	9.502	29.430								
16	9.507	9.508	9.512	9.516	9.530	9.535	9.533	9.542	9.547	9.547	9.549	9.549	9.554	9.551	9.540	9.529	9.522	9.527	9.525	9.513	9.154	9.515	9.513	9.506	29.528								
17	9.481	9.444	9.435	9.425	9.419	9.410	9.401	9.381	9.363	9.344	9.322	9.311	9.302	9.282	9.251	9.226	9.216	9.185	9.164	9.130	9.118	9.090	9.076	9.056	29.285								
18	9.045	9.017	9.011	8.990	8.969	8.956	8.940	8.929	8.920	8.914	8.909	8.892	8.889	8.885	8.880	8.877	8.876	8.878	8.879	8.874	8.878	8.912	8.927	8.947	28.925								
19	8.946	8.961	8.974	8.994	9.006	9.024	9.051	9.067	9.085	9.088	9.106	9.116	9.129	9.143	9.146	9.151	9.164	9.178	9.175	9.170	9.171	9.167	9.175	9.174	29.098								
20	9.162	9.153	9.140	9.117	9.107	9.115	9.115	9.115	9.117	9.122	9.127	9.137	9.137	9.137	9.149	9.141	9.147	9.142	9.164	9.162	9.151	9.161	9.160	9.148	9.135	29.140							
21	9.097	9.082	9.045	9.010	8.982	8.951	8.926	8.894	8.864	8.845	8.823	8.822	8.815	8.829	8.817	8.813	8.816	8.813	8.807	8.800	8.785	8.771	8.760	8.750	28.872								
22	8.734	8.708	8.700	8.699	8.677	8.671	8.671	8.678	8.644	8.640	8.637	8.632	8.639	8.633	8.630	8.631	8.631	8.642	8.647	8.633	8.651	8.645	8.639	8.637	28.655								
23	8.637	8.645	8.636	8.640	8.641	8.626	8.634	8.631	8.625	8.624	8.625	8.634	8.633	8.635	8.638	8.663	8.667	8.669	8.697	8.708	8.717	8.736	8.745	8.757	28.668								
24	8.778	8.779	8.810	8.823	8.846	8.862	8.882	8.899	8.903	8.917	8.926	8.937	8.957	8.945	8.959	8.972	8.993	8.998	9.022	9.025	9.018	9.016	9.010	9.010	28.928								
25	9.006	8.993	8.988	8.991	8.990	8.989	8.994	9.011	9.002	9.002	9.001	9.003	9.004	9.006	8.999	8.997	9.006	9.001	9.000	8.994	8.991	8.988	8.989	8.986	28.997								
26	8.978	8.966	8.976	8.986	9.000	9.012	9.010	9.010	9.010	9.011	9.011	9.017	9.025	9.004	9.018	9.058	9.066	9.076	9.082	9.087	9.090	9.089	9.089	9.060	29.035								
27	9.049	9.024	9.004	8.971	8.957	8.935	8.919	8.864	8.820	8.794	8.774	8.769	8.772	8.783	8.798	8.819	8.854	8.878	8.893	8.907	8.945	8.957	8.970	8.975	28.892								
28	8.986	9.003	9.032	9.046	9.074	9.100	9.107	9.133	9.155	9.159	9.159	9.178	9.187	9.203	9.220	9.229	9.240	9.242	9.252	9.254	9.264	9.250	9.252	9.247	29.166								
29	9.243	9.243	9.236	9.246	9.253	9.238	9.243	9.255	9.259	9.255	9.264	9.273	9.292	9.302	9.309	9.323	9.338	9.345	9.357	9.360	9.365	9.368	9.369	9.373	29.295								
30	9.367	9.353	9.338	9.331	9.329	9.317	9.299	9.275	9.265	9.248	9.234	9.217	9.211	9.196	9.189	9.183	9.186	9.182	9.187	9.193	9.205	9.223	9.237	9.256	29.251								
31	9.277	9.298	9.301	9.328	9.358	9.381	9.399	9.414	9.429	9.439	9.443	9.451	9.459	9.469	9.471	9.478	9.484	9.486	9.481	9.465	9.453	9.425	9.399	9.361	29.415								
Means	9.145	9.136	9.135	9.135	9.139	9.140	9.141	9.142	9.143	9.143	9.145	9.150	9.159	9.164	9.167	9.171	9.179	9.186	9.187	9.182	9.183	9.177	9.173	9.167	29.158								

BAROMETER.

CORRECTED TO 32° AND REDUCED TO MEAN SEA LEVEL.

FEBRUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	9.326	9.274	9.234	9.197	9.132	9.091	9.035	8.984	8.957	8.928	8.907	8.892	8.908	8.920	8.936	8.968	9.010	9.057	9.090	9.113	9.135	9.163	9.184	9.206	29.069
2	9.209	9.223	9.229	9.240	9.243	9.246	9.253	9.260	9.270	9.284	9.297	9.304	9.321	9.324	9.352	9.378	9.375	9.385	9.403	9.414	9.418	9.440	9.436	9.459	29.323
3	9.444	9.443	9.433	9.440	9.421	9.398	9.396	9.371	9.344	9.323	9.299	9.253	9.222	9.193	9.168	9.123	9.074	9.025	8.970	8.887	8.812	8.755	8.685	8.661	29.172
4	8.626	8.606	8.601	8.623	8.642	8.670	8.687	8.700	8.705	8.710	8.710	8.718	8.733	8.739	8.764	8.789	8.804	8.818	8.827	8.828	8.844	8.833	8.825	8.812	28.734
5	8.805	8.772	8.762	8.747	8.765	8.799	8.819	8.847	8.855	8.889	8.895	8.903	8.915	8.923	8.918	8.916	8.938	8.924	8.921	8.910	8.889	8.875	8.858	8.844	28.862
6	8.819	8.808	8.798	8.795	8.788	8.786	8.792	8.782	8.787	8.790	8.778	8.777	8.781	8.795	8.790	8.813	8.841	8.859	8.882	8.882	8.884	8.902	8.913	8.927	28.824
7	8.943	8.951	8.965	8.976	8.979	8.981	8.983	8.970	8.959	8.937	8.935	8.944	8.977	8.997	9.026	9.065	9.095	9.119	9.135	9.143	9.145	9.148	9.149	9.149	29.028
8	9.152	9.141	9.150	9.153	9.162	9.166	9.160	9.157	9.153	9.147	9.151	9.155	9.165	9.174	9.165	9.164	9.147	9.120	9.097	9.046	9.015	8.990	8.965	8.945	29.118
9	8.921	8.897	8.880	8.855	8.841	8.825	8.803	8.788	8.768	8.757	8.771	8.782	8.801	8.823	8.829	8.839	8.846	8.871	8.876	8.893	8.899	8.904	8.906	8.902	28.849
10	9.034	9.076	9.121	9.151	9.196	9.208	9.215	9.214	9.213	9.187	9.167	9.131	9.118	9.085	9.054	9.022	9.004	9.111	9.033	9.041	9.056	9.084	9.104	9.126	29.115
11	9.144	9.146	9.171	9.174	9.199	9.213	9.221	9.240	9.237	9.227	9.220	9.202	9.202	9.202	9.187	9.201	9.206	9.210	9.234	9.226	9.197	9.200	9.191	9.170	29.201
12	9.165	9.162	9.156	9.172	9.202	9.221	9.214	9.209	9.216	9.213	9.224	9.222	9.215	9.227	9.232	9.239	9.259	9.275	9.289	9.316	9.333	9.341	9.350	9.357	29.242
13	9.360	9.340	9.354	9.353	9.348	9.350	9.334	9.314	9.312	9.321	9.340	9.369	9.385	9.406	9.422	9.414	9.440	9.463	9.459	9.481	9.494	9.505	9.515	9.532	29.400
14	9.549	9.563	9.569	9.570	9.595	9.607	9.615	9.615	9.627	9.645	9.650	9.671	9.658	9.726	9.726	9.734	9.743	9.758	9.765	9.785	9.794	9.799	9.806	9.810	29.682
15	9.808	9.808	9.810	9.815	9.829	9.839	9.855	9.843	9.853	9.852	9.851	9.857	9.873	9.875	9.883	9.887	9.895	9.895	9.897	9.909	9.903	9.895	9.880	9.865	29.862
16	9.855	9.834	9.823	9.806	9.796	9.769	9.748	9.717	9.689	9.650	9.623	9.593	9.562	9.564	9.555	9.553	9.550	9.545	9.561	9.570	9.563	9.545	9.554	9.563	29.650
17	9.560	9.555	9.560	9.564	9.570	9.563	9.566	9.565	9.571	9.567	9.567	9.571	9.575	9.566	9.563	9.568	9.562	9.571	9.554	9.558	9.553	9.554	9.544	9.535	29.562
18	9.498	9.517	9.514	9.505	9.493	9.489	9.466	9.447	9.436	9.396	9.369	9.353	9.325	9.310	9.324	9.329	9.335	9.338	9.337	9.339	9.333	9.331	9.323	9.316	29.393
19	9.310	9.299	9.286	9.286	9.270	9.266	9.257	9.237	9.226	9.205	9.177	9.162	9.139	9.114	9.081	9.051	9.009	8.962	8.913	8.868	8.828	8.770	8.734	8.725	29.091
20	8.713	8.679	8.647	8.606	8.583	8.568	8.560	8.546	8.538	8.547	8.585	8.581	8.627	8.631	8.671	8.712	8.718	8.730	8.736	8.730	8.739	8.733	8.715	8.726	28.651
21	8.742	8.745	8.746	8.768	8.783	8.802	8.786	8.809	8.816	8.815	8.808	8.825	8.828	8.843	8.839	8.831	8.854	8.892	8.860	8.862	8.863	8.864	8.849	8.832	28.819
Means	9.190	9.183	9.181	9.181	9.183	9.184	9.179	9.172	9.168	9.161	9.158	9.155	9.159	9.164	9.166	9.171	9.176	9.187	9.183	9.181	9.176	9.173	9.166	9.169	29.174

AIR TEMPERATURE AND DEPRESSION OF WET BULB.

APRIL 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	8.9 0.7	9.4 0.5	9.6 0.3	9.8 0.6	9.9 0.4	9.8 0.3	9.7 0.2	9.4 0.3	9.9 0.3	9.9 0.4	9.4 0.3	9.9 0.5
2	13.3 0.2	13.2 0.2	13.0 0.2	13.7 0.1	14.0 0.1	14.2 0.1	14.7 0.2	10.4 0.2	11.9 1.0	17.7 0.5	19.7 0.7	23.1 1.3
3	30.6 1.6	31.0 1.5	31.3 1.3	32.8 1.6	32.6 1.2	32.8 0.8	33.0 0.7	33.5 0.5	33.4 0.4	33.3 0.3	33.8 0.3	34.0 0.2
4	25.8 0.2	28.8 0.5	28.0 0.4	29.0 0.4	28.4 0.2	28.8 0.5	28.9 0.5	29.5 0.4	31.0 1.0	34.0 2.5	32.0 0.5	31.7 0.4
5	31.8 1.4	32.7 1.1	34.0 1.1	33.8 2.1	33.0 2.2	31.8 2.6	30.9 1.0	30.5 1.3	31.8 1.1	32.0 1.0	32.5 0.7	32.5 1.2
6	31.7 0.1	31.0 0.0	29.4 0.4	29.7 0.4	30.2 1.2	30.0 0.3	30.8 0.6	30.7 0.6	31.0 0.4	30.5 0.5	31.8 0.8	32.0 0.5
7	19.9 0.2	18.8 0.6	18.0 0.5	17.8 0.8	16.8 0.8	16.3 0.6	15.3 0.5	14.0 0.1	14.1 0.2	15.4 0.5	14.4 0.3	14.2 0.3
8	12.8 0.6	12.5 0.5	13.2 0.3	13.0 0.3	14.2 0.4	13.7 0.4	16.7 0.6	18.6 0.8	19.9 1.6	20.4 1.4	23.0 1.2	24.9 0.8
9	12.1 0.9	12.4 0.7	11.1 0.5	12.7 0.9	12.4 0.5	11.9 0.4	11.5 0.7	10.7 1.0	9.8 0.7	7.9 0.5	7.6 0.5	7.0 0.1
10	5.1 0.3	6.0 0.4	6.5 0.3	7.3 0.2	7.6 0.3	8.0 0.2	9.0 0.3	10.2 0.3	11.5 0.4	12.4 0.6	13.0 0.8	14.0 0.6
11	14.5 0.2	18.2 2.0	20.2 0.9	21.0 1.2	22.1 0.8	23.1 1.6	24.0 0.5	25.0 0.2	27.0 0.2	28.6 0.3	29.8 0.5	28.9 0.1
12	27.2 0.2	26.5 0.5	25.8 0.6	27.9 0.9	28.6 1.0	29.0 0.9	29.1 0.5	29.9 0.5	30.9 0.6	31.0 0.4	31.0 0.0	31.5 0.3
13	32.5 0.7	32.0 0.0	31.0 0.0	30.6 0.5	31.1 0.1	31.1 0.2	33.1 1.5	31.1 1.8	27.7 1.7	25.9 1.9	26.0 2.0	23.7 1.9
14	19.3 0.5	19.5 0.7	19.0 0.7	18.9 0.8	18.3 0.5	18.4 0.4	18.7 0.6	18.9 0.5	19.1 0.1	19.1 0.6	17.4 0.5	16.3 0.7
15	20.9 0.0	20.7 0.5	20.2 0.1	20.6 0.2	20.3 0.2	20.6 0.2	21.5 0.4	21.3 0.3	21.6 0.3	23.2 1.2	25.0 1.6	24.4 0.8
16	31.9 0.8	31.9 0.4	32.2 0.6	32.0 0.2	32.1 0.1	32.0 0.4	32.0 0.5	34.7 1.7	33.8 1.2	33.0 0.6	32.5 0.5	29.6 1.1
17	20.8 0.8	20.9 0.9	27.2 0.7	26.3 1.0	28.3 1.1	27.6 1.2	29.2 1.0	34.0 2.0	33.0 2.5	31.1 2.1	30.0 0.2	30.2 1.1
18	17.8 0.0	16.7 0.0	21.6 0.0	22.0 0.0	22.0 0.0	22.0 0.0	21.6 0.0	22.8 0.2	24.3 0.0	28.0 0.4	30.0 0.0	30.2 0.0
19	26.5 0.2	24.7 0.1	23.8 0.0	24.0 0.0	24.3 0.1	25.6 0.5	24.6 0.1	24.0 0.0	24.7 0.2	25.5 0.4	27.2 0.2	29.1 1.4
20	36.2 1.7	34.9 2.4	34.5 2.0	33.1 1.1	23.7 1.7	20.7 1.0	17.9 1.1	15.9 1.0	14.3 0.9	14.6 1.4	14.7 1.5	15.1 0.4
21	21.9 1.3	21.6 0.6	21.7 0.7	21.9 0.2	22.8 0.5	23.2 0.1	24.7 0.5	25.9 0.0	29.2 0.1	30.0 0.1	30.5 0.3	31.0 0.1
22	32.5 0.4	32.0 0.1	32.4 0.4	32.0 0.1	32.0 0.5	32.0 0.5	31.8 0.6	31.1 0.3	31.0 0.4	30.9 0.6	30.7 0.5	30.8 0.5
23	34.4 0.4	34.1 0.3	34.0 0.0	34.1 0.1	34.8 0.5	34.5 0.4	33.8 0.3	33.1 0.3	31.9 0.2	34.0 1.3	32.4 1.4	29.0 1.5
24	33.7 0.7	34.8 0.8	34.2 0.7	34.2 0.9	33.5 0.5	32.6 0.0	33.2 0.0	33.5 0.4	34.3 0.3	34.0 0.7	33.0 0.8	32.5 0.9
25	2.4 0.2	1.9 0.2	1.4 0.1	1.5 0.1	1.7 0.2	1.8 0.1	1.3 0.2	1.2 0.1	1.3 0.1	0.9 0.1	0.1 0.2	0.4 0.1
26	22.9 0.3	25.5 0.3	26.5 0.1	28.0 0.1	25.5 0.5	26.8 0.8	26.0 1.1	26.4 1.4	26.0 0.7	27.5 0.5	27.4 0.4	29.5 0.5
27	22.5 0.5	21.1 0.8	21.3 1.2	19.9 0.3	19.2 0.2	17.9 0.6	18.1 0.1	17.6 0.3	15.4 0.4	11.4 0.4	11.2 0.9	8.1 1.0
28	0.7 0.2	-1.8 0.0	-3.3 0.0	-4.7 0.1	-5.0 0.1	-6.0 0.2	-6.5 0.3	-6.0 0.3	-5.7 0.1	-5.1 0.2	-4.5 0.4	-3.0 0.1
29	8.8 0.2	6.1 0.1	5.3 0.2	3.8 0.0	2.0 0.0	-0.2 0.1	-1.2 0.0	-3.0 0.0	-4.8 0.1	-6.0 0.3	-5.7 0.3	-7.0 0.0
30	-0.3 0.2	0.2 0.2	1.1 0.2	1.9 0.2	1.0 0.1	0.2 0.1	0.3 0.2	-0.2 0.1	0.7 0.1	0.4 0.0	1.4 0.0	1.6 0.1
Means	20.7 0.52	20.6 0.56	20.8 0.48	21.0 0.51	20.6 0.53	20.3 0.52	20.5 0.49	20.5 0.56	20.7 0.58	21.1 0.72	21.2 0.61	21.2 0.62

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	9.7 0.1	9.9 0.2	10.6 0.2	11.4 0.3	11.9 0.2	11.2 0.1	12.0 0.1	12.9 0.5	12.7 0.4	12.9 0.0	12.9 0.2	12.9 0.2	10.7 0.3
2	22.4 0.4	22.9 0.4	21.5 0.5	21.0 0.5	21.4 0.3	23.3 0.6	24.9 0.6	26.4 0.3	27.2 0.9	28.1 0.6	29.1 1.0	30.0 1.3	19.9 0.6
3	34.0 0.2	34.0 0.3	33.5 0.3	33.1 0.1	33.0 0.3	34.9 0.7	34.0 0.5	34.1 0.6	32.2 0.4	33.5 0.5	30.6 0.3	29.2 0.3	32.8 0.6
4	31.0 0.0	31.5 0.5	31.5 0.3	33.0 1.2	31.2 0.0	30.7 0.5	32.0 1.2	32.2 1.1	32.9 1.8	33.5 1.4	32.5 2.5	33.0 2.9	30.8 0.7
5	32.5 0.9	32.2 0.5	32.6 0.7	33.0 1.1	34.0 2.0	34.3 1.2	34.0 0.8	33.3 0.3	32.5 0.3	32.7 0.6	32.6 0.5	32.0 0.2	32.6 1.1
6	32.0 0.8	33.0 0.5	31.5 0.0	31.0 0.2	30.5 0.5	30.1 1.9	29.8 1.3	29.0 1.8	26.5 0.7	25.3 0.5	24.3 0.4	21.9 0.4	29.7 0.6
7	12.2 0.1	12.4 0.3	11.9 0.0	11.2 0.2	11.0 0.1	11.0 0.1	11.0 0.2	11.2 0.1	10.9 0.0	11.2 0.1	11.0 0.2	12.1 0.4	13.8 0.3
8	25.4 0.7	26.0 0.2	26.0 1.1	24.0 0.8	19.9 0.5	17.4 0.5	15.9 0.7	14.6 0.7	12.8 0.9	12.3 0.6	10.9 0.5	11.0 0.7	17.5 0.7
9	6.7 0.7	6.5 0.4	5.9 0.2	5.9 0.2	5.9 0.1	6.0 0.1	5.9 0.0	4.6 0.3	2.9 0.0	3.8 0.2	3.8 0.2	4.5 0.4	7.9 0.4
10	15.4 1.0	16.4 0.7	15.8 0.8	15.0 0.3	14.4 0.4	14.0 0.2	14.9 0.1	15.1 0.2	15.0 0.1	14.7 0.1	13.4 0.0	17.2 0.5	12.2 0.4
11	32.4 0.4	31.5 0.4	30.5 0.0	30.0 0.0	29.0 0.0	27.3 0.0	26.9 0.0	26.1 0.1	25.0 0.0	24.7 0.2	24.4 0.2	27.0 0.2	25.7 0.4
12	31.1 0.0	31.1 0.1	30.6 0.2	30.6 0.1	31.0 0.2	30.5 0.1	31.1 0.1	31.0 0.0	30.3 0.1	30.9 0.1	31.0 0.1	31.7 0.5	30.0 0.4
13	24.0 2.9	22.9 2.4	21.9 1.6	21.4 1.2	22.2 1.2	21.7 0.9	20.7 0.6	20.6 0.8	20.4 0.4	19.9 0.6	19.9 0.9	19.8 0.8	25.5 1.1
14	16.3 0.9	16.1 0.9	15.9 0.8	16.0 0.6	15.8 0.9	16.1 0.2	17.1 0.1	18.1 0.1	19.1 0.0	20.0 0.0	21.0 0.0	21.8 0.5	18.2 0.5
15	25.8 0.5	28.0 0.8	29.1 0.1	30.0 0.2	33.2 1.6	33.0 2.0	34.0 2.0	31.6 0.1	31.2 0.2	36.2 3.5	32.0 0.2	31.0 0.2	26.4 0.6
16	26.9 0.9	25.0 0.9	23.8 0.8	22.2 0.2	20.3 0.3	20.0 0.1	21.0 0.7	20.5 0.5	21.0 0.6	21.0 0.3	22.8 0.9	20.7 0.7	27.2 0.6
17	29.5 1.5	29.0 0.9	28.0 1.0	27.0 1.0	26.1 0.5	25.7 0.4	24.3 0.2	23.2 0.0	22.2 0.0	21.4 0.2	20.2 0.0	19.8 0.0	26.5 0.9
18	30.6 0.0	31.4 0.2	31.7 0.2	33.0 0.0	32.8 0.1	32.0 0.0	32.2 0.1	31.3 0.0	32.0 0.0	34.1 0.4	33.9 0.4	29.9 0.7	27.7 0.2
19	27.7 0.7	27.2 0.2	27.0 0.1	26.8 0.3	26.0 0.0	26.7 0.4	24.7 0.2	26.2 0.2	27.8 0.7	27.5 0.4	29.5 0.1	29.5 1.5	26.3 0.4
20	15.9 0.9	14.5 1.6	14.9 1.0	14.2 1.6	14.8 1.9	15.0 1.7	15.1 1.4	15.4 1.1	17.6 0.5	18.5 1.0	19.1 0.9	20.5 1.1	19.6 1.3
21	31.5 0.2	31.5 0.1	32.0 0.2	32.0 0.4	32.0 0.3	32.0 0.1	33.7 1.0	34.1 0.8	33.0 0.6	33.1 0.3	32.3 0.2	33.0 0.2	28.9 0.3
22	30.6 0.4	31.1 0.5	33.1 0.3	33.2 0.2	33.4 0.2	34.3 0.3	34.5 0.4	34.0 0.4	33.8 0.4	34.0 0.3	34.0 0.5	34.3 0.4	32.5 0.4
23	28.6 1.9	28.0 1.6	25.2 1.1	24.4 1.2	25.4 1.4	26.4 1.4	26.0 1.0	28.0 0.4	31.0 1.2	32.8 1.7	32.9 1.7	34.0 1.0	31.0 1.0
24	32.9 0.7	32.1 0.3	32.0 0.3	31.2 0.0	27.8 0.4	7.7 0.0	5.7 0.4	4.5 0.6	4.9 0.4	3.9 0.2	3.3 0.4	3.0 0.1	24.7 0.5
25	1.2 0.1	0.8 0.3	0.4 0.3	1.0 0.1	1.9 0.1	4.1 0.2	4.5 0.1	5.6 0.2	11.9 0.7	12.1 0.7	14.8 0.4	18.5 0.7	3.9 0.3
26	29.3 3.2	27.8 1.2	25.8 0.8	20.1 0.8	19.6 0.8	19.1 0.5	19.8 0.9	21.3 1.0	21.7 0.7	21.8 0.6	21.3 0.3	21.5 0.3	24.5 0.8
27	6.7 0.2	8.1 0.0	15.0 0.9	15.4 0.5	14.9 0.3	11.1 0.0	8.9 0.1	5.2 0.0	6.2 0.1	5.8 0.0	3.1 0.1	1.9 0.0	12.8 0.4
28	-1.1 0.2	-1.3 0.5	-1.1 0.4	-1.8 0.2	-1.9 0.1	-1.8 0.0	0.9 0.0	6.9 0.2	8.5 0.4	8.7 0.3	9.2 0.2	9.9 0.1	-0.7 0.2
29	-7.8 0.3	-7.4 0.0	-7.4 0.0	-8.1 0.1	-7.6 0.2	-7.3 0.1	-7.0 0.2	-6.0 0.2	-1.8 0.3	-2.1 0.2	-2.1 0.1	-1.1 0.2	-2.8 0.1
30	2.0 0.0	2.1 0.0	3.5 0.0	1.9 0.0	1.7 0.2	0.2 0.0	0.2 0.0	1.1 0.0	1.5 0.0	1.1 0.0	0.9 0.1	0.9 0.0	1.1 0.1
Means	21.2 0.60	21.2 0.57	21.1 0.47	20.6 0.45	20.4 0.50	19.6 0.48	19.6 0.52	19.7 0.44	20.1 0.43	20.4 0.52	20.2 0.45	20.4 0.55	20.6 0.54

AIR TEMPERATURE AND DEPRESSION OF WET BULB.

MAY 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	- 0.1 0.0	- 0.1 0.0	- 1.1 0.0	- 1.4 0.2	- 2.1 0.1	- 2.1 0.0	- 2.8 0.1	- 3.3 0.2	- 5.4 0.2	- 5.8 0.0	- 4.9 0.0	- 4.3 0.4
2	2.1 0.1	3.6 0.1	4.5 0.1	5.7 0.2	7.1 0.0	10.9 0.1	13.3 0.2	14.9 0.1	17.2 0.2	19.1 0.1	21.8 0.3	23.2 0.2
3	30.4 0.2	30.2 0.2	30.5 0.4	31.0 0.3	31.2 0.4	31.1 0.1	31.0 0.1	30.1 0.1	30.1 0.1	29.3 0.1	29.1 0.1	26.0 0.0
4	12.8 0.0	11.9 0.0	11.9 0.0	12.2 0.0	12.7 0.0	12.6 0.0	12.2 0.0	12.0 0.0	12.0 0.0	11.9 0.0	11.9 0.0	11.5 0.0
5	6.8 0.0	6.7 0.0	5.9 0.0	5.4 0.1	5.7 0.1	7.1 0.0	8.0 0.1	8.1 0.0	8.2 0.0	8.3 0.0	7.9 0.1	6.9 0.0
6	5.1 0.0	4.2 0.0	4.2 0.0	4.0 0.0	3.9 0.0	4.1 0.0	4.1 0.1	3.6 0.1	3.4 0.0	2.7 0.1	0.9 0.0	- 1.2 0.0
7	- 13.9 0.1	- 14.4 0.1	- 15.7 0.0	- 14.3 0.2	- 13.1 0.1	- 13.2 0.1	- 13.0 0.1	- 12.3 0.0	- 10.8 0.1	- 12.3 0.1	- 9.1 0.1	- 5.0 0.8
8	4.8 0.4	5.9 0.6	7.3 0.2	8.4 0.1	10.0 0.1	9.7 0.1	10.1 0.0	11.4 0.0	15.9 0.0	16.7 0.1	15.3 0.2	17.7 0.0
9	26.3 1.4	26.8 1.5	26.9 0.7	27.1 0.3	27.6 0.2	27.7 0.3	27.0 0.0	26.7 0.0	28.1 0.1	29.0 0.0	30.0 0.0	31.0 0.2
10	30.9 0.1	30.4 0.0	30.2 0.0	30.3 0.0	30.3 0.0	30.2 0.0	30.3 0.0	30.0 0.0	30.3 0.0	27.9 0.0	27.2 0.1	26.4 0.1
11	15.7 0.1	15.7 0.3	15.4 0.2	15.0 0.0	14.9 0.0	14.0 0.1	13.8 0.1	12.9 0.0	13.1 0.0	13.4 0.0	12.9 0.0	12.1 0.1
12	- 6.6 0.2	- 7.5 0.0	- 7.5 0.1	- 7.2 0.2	- 6.4 0.2	- 7.2 0.2	- 7.9 0.1	- 8.0 0.3	- 8.9 0.0	- 9.8 0.0	- 9.7 0.0	- 9.0 0.2
13	- 12.6 0.2	- 12.7 0.2	- 13.7 0.1	- 14.0 0.2	- 14.3 0.2	- 14.9 0.0	- 14.9 0.0	- 14.9 0.0	- 13.9 0.0	- 12.3 0.1	- 10.5 0.0	- 9.9 0.0
14	0.9 0.0	7.2 0.0	9.1 0.1	9.7 0.1	10.7 0.2	11.9 0.0	14.4 0.5	15.2 0.3	15.6 0.5	16.2 0.2	15.2 0.2	16.5 0.3
15	31.8 0.0	31.0 0.0	30.3 0.3	28.0 0.0	25.0 0.0	22.5 0.0	21.5 0.0	18.2 0.0	18.0 0.0	16.7 0.1	16.9 0.0	17.8 0.0
16	- 5.4 0.0	- 6.7 0.1	- 7.9 0.1	- 9.0 0.0	- 9.0 0.2	- 9.2 0.3	- 10.0 0.0	- 10.9 0.1	- 10.3 0.2	- 10.0 0.0	- 8.2 0.1	- 6.0 0.2
17	9.9 0.0	10.4 0.0	13.4 0.7	15.9 0.2	16.3 0.4	17.5 0.3	19.0 0.2	19.3 0.0	21.3 0.0	24.0 0.0	26.1 0.1	27.2 0.1
18	27.6 0.6	26.5 0.6	25.5 0.4	23.5 0.0	23.2 0.1	23.0 0.1	21.8 0.4	19.5 0.1	18.9 0.1	14.9 0.0	11.2 0.0	7.0 0.1
19	34.0 1.2	33.8 1.4	34.1 2.0	33.0 0.9	32.8 0.8	33.0 1.7	32.3 0.9	32.1 0.1	32.3 0.0	33.6 1.6	34.8 2.8	32.0 0.0
20	33.8 0.2	33.5 0.1	32.7 0.1	33.1 0.0	33.2 0.0	32.4 0.0	32.1 0.1	32.0 0.0	32.0 0.0	32.0 0.0	32.0 0.0	31.4 0.0
21	35.1 3.1	35.5 3.4	36.1 3.2	36.1 3.6	35.7 3.7	36.6 4.4	32.2 0.8	32.8 1.8	31.0 0.5	31.0 0.3	31.2 0.4	31.0 0.4
22	32.6 0.4	31.8 0.0	32.2 0.2	32.6 0.2	32.6 0.6	32.0 0.5	35.8 2.5	33.2 1.2	34.0 1.0	34.0 0.8	33.6 0.6	35.0 1.6
23	31.9 0.4	31.2 0.2	31.2 0.2	31.6 0.3	31.7 0.2	32.1 0.4	31.5 0.2	31.2 0.1	31.1 0.0	31.3 0.0	31.2 0.0	31.0 0.0
24	32.0 0.8	31.1 0.6	29.0 0.9	28.8 0.4	27.7 0.1	27.6 0.2	28.0 0.0	28.0 0.0	28.8 0.2	29.0 0.0	29.5 0.2	30.0 0.2
25	30.0 0.8	29.2 0.6	29.3 1.1	26.2 0.5	21.9 0.4	20.4 0.3	14.6 0.3	10.9 0.2	8.9 0.3	7.0 0.0	5.5 0.3	4.0 0.1
26	14.8 0.1	17.5 0.4	21.9 0.0	23.6 0.5	24.3 0.3	24.2 0.2	25.0 0.4	21.0 0.1	15.3 0.0	10.0 0.0	7.4 0.0	5.9 0.0
27	10.9 0.5	11.4 0.4	12.9 0.5	15.1 0.8	18.0 0.3	20.0 0.4	21.6 0.5	23.0 1.0	23.3 0.2	24.5 0.4	25.3 0.3	27.0 0.4
28	27.0 0.1	26.7 0.0	26.5 0.1	25.8 0.2	26.0 0.2	26.2 0.3	27.2 0.2	27.0 0.3	27.5 0.3	26.2 0.4	24.3 0.3	24.2 1.5
29	29.8 0.6	28.1 0.1	28.8 0.6	30.0 0.7	29.3 0.3	29.5 0.5	28.3 0.3	28.2 0.4	28.0 0.3	28.0 0.5	26.5 0.5	25.8 0.5
30	27.0 0.0	28.5 0.5	29.2 0.0	34.0 1.9	34.3 0.4	33.5 0.4	33.2 0.6	32.5 0.5	30.7 0.0	26.1 0.1	26.0 0.0	22.0 0.0
31	27.1 0.3	29.0 0.2	29.9 0.5	31.0 0.2	31.6 0.6	32.4 0.5	33.0 1.0	33.2 0.2	34.4 0.3	35.2 0.4	41.2 1.9	45.0 3.0
Means	17.2 0.38	17.3 0.37	17.5 0.41	17.8 0.40	17.8 0.33	17.9 0.44	17.8 0.32	17.3 0.23	17.4 0.15	17.0 0.18	17.2 0.28	17.3 0.34

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	- 4.8 0.2	- 4.0 0.3	- 5.0 0.1	- 5.6 0.2	- 6.3 0.3	- 4.2 0.3	- 3.6 0.2	- 4.8 0.0	- 2.9 0.0	- 2.8 0.1	- 2.6 0.1	- 0.7 0.1	- 3.4 0.1
2	24.2 0.2	25.0 0.5	25.6 0.9	25.9 0.8	26.0 0.1	27.3 1.0	27.9 0.6	28.9 0.2	29.8 0.4	30.0 0.4	30.8 0.5	30.9 0.4	19.8 0.3
3	24.6 0.0	23.1 0.0	21.0 0.0	20.0 0.0	19.0 0.0	18.1 0.0	16.5 0.2	14.9 0.0	14.0 0.0	13.5 0.0	13.7 0.0	13.1 0.0	23.8 0.1
4	11.0 1.0	11.0 0.0	10.2 0.1	9.9 0.0	9.7 0.1	9.4 0.2	9.2 0.2	8.9 0.0	8.9 0.0	9.0 0.0	8.2 0.0	7.9 0.0	10.8 0.1
5	7.0 0.0	5.5 0.0	5.8 0.1	5.1 0.0	4.9 0.0	5.8 0.3	5.9 0.0	5.9 0.1	6.2 0.1	6.1 0.0	6.1 0.0	5.4 0.0	6.4 0.0
6	- 3.0 0.0	- 4.8 0.2	- 5.3 0.3	- 5.6 0.2	- 6.0 0.1	- 7.7 0.2	- 7.4 0.5	- 8.8 0.2	- 12.6 0.2	- 12.2 0.1	- 11.9 0.1	- 13.6 0.1	- 2.5 0.1
7	- 3.6 0.4	- 1.1 0.9	- 3.4 0.3	- 6.0 0.1	- 5.0 0.1	- 6.0 0.0	- 7.0 0.9	- 7.1 0.0	2.9 0.3	2.9 0.6	3.9 0.5	4.6 0.5	- 7.2 0.2
8	18.6 0.3	21.8 0.6	22.1 0.3	21.8 0.6	20.4 0.3	25.5 0.5	23.6 0.2	25.9 2.6	25.1 1.8	25.2 1.2	25.2 1.1	25.7 1.5	17.3 0.6
9	31.5 0.0	31.8 0.1	31.8 0.0	31.0 0.0	30.1 0.0	29.4 0.0	29.1 0.0	29.0 0.0	28.9 0.0	28.9 0.0	29.0 0.0	30.0 0.0	28.9 0.2
10	23.9 0.1	22.0 0.0	19.9 0.1	18.7 0.2	17.4 0.3	16.9 0.2	16.2 0.3	16.1 0.2	15.9 0.0	16.0 0.1	15.8 0.1	15.9 0.1	23.7 0.1
11	11.0 0.1	10.6 0.3	9.6 0.2	9.9 0.2	9.5 0.1	7.6 0.1	6.1 0.2	4.3 0.3	2.3 0.2	- 0.4 0.0	- 2.6 0.1	- 4.5 0.1	9.7 0.1
12	- 8.8 0.0	- 9.7 0.1	- 10.9 0.0	- 11.9 0.1	- 12.5 0.3	- 13.8 0.0	- 14.0 0.2	- 14.5 0.0	- 14.5 0.0	- 14.4 0.0	- 14.0 0.2	- 13.0 0.2	- 10.3 0.1
13	- 9.8 0.0	- 8.4 0.0	- 7.9 0.0	- 4.8 0.0	- 3.5 0.0	- 3.6 0.0	- 2.8 0.1	- 2.0 0.0	- 1.9 0.0	- 2.1 0.0	- 1.6 0.0	- 1.7 0.0	- 8.7 0.0
14	16.7 0.8	18.0 0.1	19.4 0.2	22.2 0.2	24.2 0.2	26.8 0.3	28.4 0.1	30.1 0.1	34.0 1.0	33.0 0.2	32.7 0.2	32.2 0.1	19.2 0.3
15	17.0 0.0	17.9 0.0	12.9 0.0	14.0 0.0	16.0 0.0	16.3 0.1	12.8 0.2	9.3 0.0	5.9 0.0	3.5 0.1	- 0.7 0.0	- 2.7 0.0	16.7 0.1
16	- 4.0 1.0	- 5.0 0.2	- 6.2 0.5	- 8.2 0.0	- 6.1 0.0	- 7.9 0.1	- 10.0 0.1	- 9.0 0.3	- 8.0 0.0	10.7 0.0	11.2 0.0	11.7 0.0	- 5.6 0.1
17	28.2 0.2	28.5 0.0	29.1 0.1	30.0 0.0	28.9 0.0	28.2 0.2	28.1 0.1	28.3 0.2	28.5 0.1	28.9 0.2	29.2 0.6	29.0 1.0	23.6 0.2
18	4.9 0.2	4.0 0.2	4.8 0.4	5.1 0.1	16.9 0.3	20.3 0.5	23.2 0.2	24.1 0.2	26.1 0.2	27.7 0.3	30.4 0.4	34.8 1.4	19.4 0.3
19	30.3 0.2	30.4 0.1	30.3 0.0	30.2 0.1	32.4 0.4	32.7 0.7	32.4 0.1	33.3 0.3	33.1 0.1	34.0 0.4	33.8 0.2	33.7 0.2	32.7 0.6
20	31.8 0.1	31.3 0.3	31.0 0.0	31.0 0.1	30.7 0.2	31.0 0.4	30.8 0.6	30.2 0.3	31.0 0.8	31.2 0.6	31.3 0.5	33.5 1.7	31.9 0.3
21	32.0 0.5	32.2 0.4	32.0 0.0	32.0 0.0	31.9 0.1	31.5 0.0	32.0 0.0	32.8 0.2	32.0 0.0	31.8 0.0	31.4 0.0	32.1 0.2	32.8 1.1
22	35.3 1.5	37.0 4.0	35.8 3.6	37.2 4.2	34.8 2.4	32.9 0.8	32.7 0.6	32.2 0.2	32.0 0.3	31.4 0.1	31.7 0.4	31.2 0.0	33.5 1.2
23	31.7 0.3	31.7 0.2	31.7 0.4	31.2 0.1	31.6 0.3	31.2 0.1	30.9 0.0	30.6 0.0	30.7 0.0	30.0 0.0	30.3 0.3	30.2 0.2	31.2 0.2
24	30.5 0.2	30.6 0.0	31.0 0.3	29.9 0.2	30.2 0.4	30.0 0.5	29.8 0.8	29.3 0.3	29.8 0.5	29.7 0.9	30.0 0.4	29.8 1.0	29.6 0.4
25	2.9 0.3	0.8 0.2	- 0.1 0.0	- 0.6 0.1	0.9 0.1	3.2 0.2	4.3 0.3	5.6 0.6	7.7 0.3	11.5 0.1	11.4 0.3	12.8 0.0	11.2 0.3
26	3.9 0.0	1.9 0.1	0.1 0.0	- 0.9 0.1	- 0.4 0.1	- 1.9 0.0	- 1.1 0.1	- 1.1 0.2	- 2.0 0.0	- 4.0 0.0	- 5.4 0.0	- 4.2 0.2	8.2 0.2
27	28.4 0.2	30.1 0.0	31.2 0.2	32.0 0.9	31.8 0.0	31.8 0.1	31.9 0.0	31.5 0.0	30.9 0.0	30.8 0.0	29.5 0.0	28.2 0.2	25.0 0.3
28	24.4 1.8	24.9 2.0	24.5 1.5	25.0 1.1	25.9 1.1	25.7 0.8	25.2 0.3	26.0 0.1	27.8 0.3	28.2 0.3	29.1 0.3	30.1 0.6	26.3 0.6
29	23.1 0.2	22.2 0.2	19.1 0.0	16.1 0.0	15.8 0.0	16.2 0.0	14.9 0.0	20.9 0.0	18.2 0.1	19.1 0.1	21.0 0.6	24.2 0.0	23.8 0.3
30	23.6 0.3	23.1 0.1	22.2 1.0	23.9 1.7	26.2 1.6	24.9 0.5	25.9 0.6	26.2 0.1	27.8 0.4	27.2 0.0	28.2 0.2	26.9 0.8	27.6 0.5
31	46.0 0.3	37.4 1.4	35.3 0.8	33.5 0.3	33.9 0.7	33.8 0.7	33.0 0.2	32.9 0.2	33.3 0.3	34.0 0.8	32.9 0.1	33.0 0.0	34.2 0.7
Means	17.0 0.43	16.8 0.40	16.1 0.37	15.9 0.37	16.4 0.31	16.5 0.28	16.3 0.25	16.4 0.22	16.8 0.24	17.4 0.21	17.4 0.23	17.6 0.34	17.1 0.31

AIR TEMPERATURE AND DEPRESSION OF WET BULB.

JUNE 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	33.0 0.1	33.5 0.1	33.0 0.2	33.2 0.2	33.2 0.2	32.9 0.1	32.7 0.3	32.4 0.3	32.1 0.3	34.3 0.9	36.7 1.6	40.9 2.9
2	32.8 0.0	33.4 0.2	33.7 0.0	33.3 0.2	32.6 0.2	33.0 0.0	33.0 0.4	37.2 0.4	38.3 2.5	33.9 1.6	34.5 3.5	30.7 1.8
3	24.0 2.2	23.9 2.0	25.2 2.8	26.2 2.3	25.5 1.3	25.6 1.7	25.2 0.3	24.0 0.1	24.5 0.3	25.0 0.1	20.0 0.6	20.7 1.4
4	17.7 1.8	15.7 1.5	16.2 1.0	16.1 1.0	13.8 0.9	12.3 0.6	9.9 0.6	8.8 0.7	7.2 0.1	8.9 0.5	9.9 0.4	10.5 0.4
5	- 2.5 0.1	- 4.1 0.2	- 5.2 0.0	- 6.3 0.0	- 6.3 0.1	- 6.1 0.1	- 5.9 0.1	- 6.9 0.1	- 7.0 0.2	- 6.4 0.3	- 3.6 0.6	- 2.3 1.0
6	19.5 0.5	20.5 0.4	20.7 0.2	21.2 0.2	21.8 0.2	22.4 0.2	22.4 0.4	22.7 0.5	23.0 0.8	23.0 0.3	24.3 1.4	23.9 0.7
7	26.7 0.2	23.5 0.1	21.1 0.2	17.4 0.1	14.6 0.2	11.5 0.4	4.8 0.0	1.4 0.0	- 1.6 0.2	- 3.1 0.1	- 4.0 0.0	- 3.9 0.1
8	- 13.0 0.0	- 13.0 0.0	- 11.5 0.2	- 8.8 0.1	- 7.9 0.1	- 6.9 0.1	- 6.0 0.0	3.1 0.0	2.8 0.0	3.5 0.0	4.1 0.0	7.1 0.0
9	21.0 0.8	21.7 0.7	22.0 0.5	22.9 0.7	23.6 0.6	25.9 0.9	26.3 0.5	27.2 0.4	27.0 0.2	27.0 0.2	26.9 0.4	26.8 0.4
10	- 11.2 0.1	- 12.8 0.2	- 14.0 0.1	- 14.5 0.0	- 14.3 0.2	- 16.9 0.0	- 16.2 0.0	- 14.8 0.1	- 14.4 0.0	- 10.7 0.2	- 1.9 0.0	- 1.5 0.0
11	20.0 1.0	21.4 0.7	21.0 0.9	23.0 1.0	22.3 0.2	22.8 0.4	22.5 1.2	22.8 1.0	23.6 0.7	23.6 0.5	23.7 0.5	23.8 0.3
12	19.6 0.4	20.6 0.6	21.5 0.0	17.5 0.0	20.0 0.1	21.8 0.0	23.2 0.1	24.0 0.0	26.0 0.3	27.0 0.4	28.0 0.5	23.0 0.6
13	28.2 0.7	28.0 0.8	28.5 0.9	27.4 0.5	27.1 0.2	27.2 0.3	14.1 0.3	8.3 0.0	3.3 0.1	- 0.1 0.0	- 1.1 0.2	- 1.2 0.4
14	6.8 0.8	7.1 0.7	7.0 0.3	6.0 0.1	5.5 0.3	5.9 0.3	7.0 0.7	7.3 0.3	8.9 0.2	6.0 0.0	- 1.1 0.1	- 2.6 0.1
15	3.7 0.0	3.9 0.0	5.9 0.2	6.9 0.2	8.2 0.1	10.0 0.5	8.2 0.9	8.0 0.9	8.0 0.6	8.9 0.8	9.8 0.8	10.5 0.5
16	11.1 0.2	12.3 0.3	13.7 0.2	16.6 0.3	16.9 0.3	18.5 0.2	20.0 0.2	20.4 0.2	5.9 0.1	4.9 0.1	0.8 0.2	- 2.4 0.1
17	- 2.1 0.2	- 1.9 0.1	- 1.9 0.2	- 2.2 0.1	- 2.4 0.3	- 2.9 0.2	- 3.1 0.3	- 3.1 0.5	- 4.0 0.0	- 3.6 0.1	3.5 0.3	5.4 0.3
18	- 1.3 0.2	- 3.9 0.1	- 6.9 0.1	- 9.0 0.0	- 11.0 0.0	- 14.6 0.0	- 16.5 0.0	- 16.4 0.0	- 16.9 0.0	- 17.9 0.0	- 19.2 0.0	- 20.7 0.1
19	- 21.1 0.0	- 22.9 0.0	- 24.0 0.0	- 25.2 0.0	- 25.4 0.0	- 25.7 0.0	- 26.0 0.0	- 25.4 0.0	- 24.3 0.0	- 23.0 0.1	- 21.8 0.0	- 20.1 0.1
20	- 16.1 0.0	- 15.4 0.0	- 14.9 0.0	- 11.8 0.0	- 9.8 0.1	- 7.9 0.1	- 7.8 0.0	- 12.0 0.0	- 13.5 0.1	- 16.9 0.0	- 17.9 0.0	- 17.9 0.0
21	- 20.9 0.1	- 19.5 0.4	- 13.8 0.2	- 14.0 0.2	- 13.8 0.2	- 14.2 0.4	- 14.0 0.2	- 13.5 0.3	- 13.2 0.4	- 13.8 0.2	- 13.6 0.4	- 14.3 0.4
22	- 6.0 0.6	- 3.5 0.6	- 4.6 0.7	- 1.1 0.7	- 1.9 0.3	0.3 0.3	- 0.4 0.6	- 2.4 0.3	- 2.3 0.5	- 3.1 0.2	10.7 0.4	11.9 0.3
23	9.6 0.0	7.4 0.0	7.4 0.0	5.3 0.0	3.0 0.0	2.1 0.0	6.7 0.0	8.3 0.1	7.0 0.0	9.4 0.0	7.9 0.0	8.8 0.0
24	27.8 0.5	28.0 0.5	28.5 0.3	27.8 0.2	27.0 0.1	26.5 0.2	26.6 0.3	27.1 0.1	26.5 0.2	26.8 0.2	27.0 0.2	26.4 0.3
25	25.9 0.6	25.6 0.2	25.0 0.1	20.0 0.0	18.1 0.0	17.3 0.0	14.7 0.1	14.0 0.1	13.1 0.1	11.0 0.0	11.9 0.1	11.9 0.1
26	14.7 0.0	14.9 0.0	14.7 0.0	14.5 0.0	14.2 0.0	14.1 0.0	14.9 0.0	14.3 0.0	14.2 0.0	13.9 0.0	13.7 0.0	13.9 0.0
27	8.4 0.2	8.2 0.2	7.9 0.0	7.5 0.1	6.4 0.1	5.4 0.1	4.9 0.1	5.2 0.0	5.0 0.1	4.9 0.0	4.9 0.1	2.9 0.0
28	1.7 0.0	1.6 0.0	7.5 0.0	5.9 0.1	3.0 0.0	4.1 0.0	3.8 0.0	3.9 0.0	7.2 0.0	7.2 0.0	7.5 0.0	5.1 0.0
29	16.0 0.0	15.0 0.0	15.7 0.0	16.4 0.0	17.9 0.2	17.9 0.2	18.2 0.3	20.0 0.2	22.8 0.4	25.0 0.2	26.4 0.1	29.0 0.2
30	31.0 0.3	31.6 0.4	31.7 0.5	31.5 0.3	31.5 0.3	31.0 0.2	31.1 0.3	31.0 0.3	30.8 0.3	30.6 0.2	31.0 0.0	31.5 0.0
Means	10.2 0.39	10.0 0.37	10.4 0.33	10.1 0.29	9.8 0.23	9.8 0.25	9.1 0.27	9.2 0.23	8.7 0.29	8.5 0.24	9.3 0.41	9.4 0.40

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	41.5 3.2	31.8 0.6	32.8 1.0	30.5 0.3	30.3 0.0	30.4 0.1	29.8 0.1	31.5 0.4	32.4 0.4	33.0 0.3	33.6 0.4	33.0 0.2	33.3 0.8
2	30.0 1.3	29.6 1.4	29.3 1.0	29.1 1.0	24.8 0.4	27.7 0.7	26.0 0.9	25.3 0.3	26.5 1.4	24.9 1.5	24.0 1.4	23.4 2.9	30.5 1.1
3	22.6 1.6	24.2 1.0	22.9 0.6	20.4 0.4	19.9 2.6	18.8 2.7	18.9 2.3	20.3 2.9	20.9 2.1	20.0 2.2	18.2 1.2	18.2 1.2	22.3 1.5
4	11.2 0.5	11.5 0.6	11.4 0.3	10.9 0.3	9.5 0.3	4.9 0.0	5.9 0.1	5.2 0.1	2.0 0.0	1.0 0.1	- 0.1 0.2	- 1.3 0.1	9.1 0.5
5	1.0 0.6	1.2 0.7	0.0 0.4	0.9 0.8	0.1 0.4	3.9 0.7	7.9 0.5	7.7 0.4	10.5 0.6	11.8 0.7	13.9 0.4	17.0 0.2	0.6 0.4
6	24.9 0.8	25.9 0.9	25.9 0.9	26.1 0.6	26.5 0.6	27.0 0.3	26.5 0.3	26.1 0.1	25.9 0.1	26.1 0.1	26.2 0.2	26.2 0.2	24.1 0.4
7	- 5.0 0.0	- 6.0 0.0	- 7.0 0.0	- 8.0 0.0	- 8.5 0.0	- 9.0 0.0	- 9.2 0.0	- 8.8 0.0	- 9.2 0.1	- 9.0 0.0	- 11.8 0.0	- 12.7 0.0	0.2 0.1
8	9.9 0.0	10.7 0.0	10.5 0.1	9.9 0.0	12.1 0.1	11.8 0.0	14.2 0.0	14.2 0.0	15.4 0.3	17.2 0.3	18.4 0.5	19.0 0.7	4.9 0.1
9	26.1 0.1	26.0 0.0	23.5 0.0	19.7 0.2	10.4 0.2	7.3 0.3	1.2 0.1	- 1.0 0.1	- 4.0 0.1	- 6.0 0.2	- 8.0 0.2	- 9.7 0.2	16.0 0.3
10	- 1.0 0.0	- 0.6 0.0	1.9 0.0	2.3 0.1	3.9 0.1	7.8 0.3	8.3 0.1	10.9 0.4	10.2 0.2	10.9 0.2	12.1 0.2	14.2 0.3	- 2.6 0.1
11	23.5 0.3	23.2 0.2	22.3 0.2	22.1 0.3	21.7 0.7	19.3 0.3	20.0 0.5	21.0 0.4	20.0 0.2	19.0 0.1	20.0 0.1	21.0 0.5	21.8 0.5
12	28.0 0.6	28.2 0.1	28.3 0.3	28.0 0.7	28.0 0.5	28.0 0.4	27.7 0.3	28.0 0.4	27.7 0.2	27.5 0.5	27.9 0.7	28.0 0.9	25.5 0.3
13	- 2.0 0.1	- 1.9 0.1	- 1.2 0.1	- 0.2 0.2	- 0.1 0.0	0.5 0.0	0.6 0.0	1.1 0.0	2.0 0.1	3.9 0.4	5.7 0.7	6.9 0.8	8.5 0.2
14	- 6.0 0.0	- 8.2 0.1	- 9.6 0.0	- 11.3 0.1	14.3 0.0	- 14.1 0.1	- 13.1 0.4	- 11.4 0.3	- 2.3 0.1	- 2.1 0.0	- 0.1 0.7	1.1 0.0	- 1.2 0.2
15	10.7 0.6	11.0 0.7	10.8 0.6	10.2 0.2	10.3 0.2	10.1 0.1	9.0 0.0	8.9 1.0	5.7 0.5	4.8 0.8	0.5 0.5	10.0 0.3	8.1 0.5
16	- 3.9 0.0	- 6.1 0.1	- 6.4 0.1	- 8.3 0.1	- 9.7 0.0	- 8.0 0.0	- 6.9 0.0	- 6.3 0.2	- 7.8 0.2	- 6.8 0.2	- 4.6 0.4	- 3.9 0.2	2.5 0.2
17	4.9 0.2	6.9 0.0	10.2 0.1	15.7 0.0	18.0 0.1	26.3 0.1	27.2 0.1	27.5 0.0	28.3 0.1	15.9 0.0	3.8 0.1	- 1.1 0.0	6.9 0.2
18	- 22.0 0.0	- 24.9 0.0	- 23.8 0.0	- 23.3 0.0	- 21.8 0.0	- 15.9 0.0	- 13.0 0.0	- 11.2 0.1	- 12.7 0.1	- 15.0 0.0	- 17.0 0.0	- 19.9 0.0	- 15.6 0.0
19	- 19.7 0.0	- 18.9 0.0	- 16.9 0.0	- 14.9 0.0	- 13.7 0.1	- 11.0 0.1	- 9.9 0.0	- 11.0 0.1	- 13.2 0.0	- 15.1 0.0	- 17.1 0.0	- 17.7 0.0	- 19.3 0.1
20	- 17.1 0.0	- 19.4 0.0	- 19.7 0.0	- 20.0 0.0	- 20.5 0.0	- 20.8 0.0	- 20.9 0.0	- 21.0 0.0	- 20.9 0.0	- 20.9 0.0	- 20.9 0.0	- 19.1 0.1	- 16.8 0.0
21	- 13.8 0.2	- 13.8 0.1	- 12.5 0.3	- 11.2 0.2	- 10.2 0.4	- 10.0 0.3	- 8.8 0.2	- 10.0 0.2	- 8.2 0.6	- 8.1 0.6	- 6.0 0.6	- 6.1 0.6	- 12.4 0.6
22	12.1 0.2	12.1 0.2	12.4 0.2	14.1 0.2	16.9 0.1	14.1 0.0	18.0 0.2	16.2 0.3	11.1 0.0	11.3 0.2	8.2 0.0	7.8 0.0	6.3 0.3
23	9.0 0.0	11.0 0.0	12.8 0.1	15.7 0.2	18.0 0.0	18.9 0.0	21.0 0.0	21.1 0.0	23.9 0.1	26.3 0.1	26.6 0.2	26.8 0.1	13.1 0.1
24	24.9 0.2	23.0 0.0	22.0 0.5	23.2 0.2	23.2 0.2	23.0 0.2	22.9 0.6	23.0 0.5	23.7 0.7	23.9 0.2	23.7 0.3	24.9 0.1	25.3 0.3
25	12.0 0.0	12.7 0.5	12.9 0.3	13.4 0.4	13.7 0.2	13.9 0.1	14.0 0.0	13.6 0.0	13.9 0.0	13.9 0.0	13.9 0.0	14.4 0.0	15.4 0.1
26	13.9 0.1	13.5 0.0	13.1 0.1	13.0 0.0	12.2 0.2	11.9 0.2	11.5 0.2	10.9 0.0	10.4 0.2	9.8 0.1	9.9 0.3	10.0 0.1	13.0 0.1
27	2.9 0.1	2.4 0.0	0.8 0.0	0.7 0.0	- 1.4 0.0	- 1.6 0.1	- 1.0 0.1	- 1.6 0.0	- 2.0 0.0	- 1.8 0.0	- 1.1 0.0	- 0.1 0.0	2.8 0.0
28	4.8 0.0	4.7 0.0	5.0 0.1	5.5 0.0	5.8 0.0	6.0 0.0	6.9 0.0	7.6 0.1	8.1 0.0	8.5 0.0	8.5 0.0	9.3 0.1	5.8 0.0
29	30.0 0.3	29.8 0.3	29.2 0.2	28.7 0.3	28.2 0.2	27.4 0.0	26.9 0.0	26.9 0.0	27.9 0.0	28.7 0.3	29.0 0.0	30.6 0.1	24.3 0.1
30	32.0 0.2	32.0 0.0	33.0 0.0	32.7 0.2	32.1 0.0	32.5 0.2	32.0 0.0	31.2 0.0	30.9 0.0	30.0 0.2	28.8 0.6	28.0 0.4	31.2 0.2
Means	9.5 0.37	9.1 0.25	9.1 0.25	9.2 0.24	9.0 0.25	9.4 0.24	9.8 0.23	9.9 0.28	9.9 0.28	9.5 0.31	8.9 0.33	9.3 0.34	9.5 0.31

AIR TEMPERATURE AND DEPRESSION OF WET BULB.

JULY 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	27.7 0.0	27.0 1.3	26.7 1.5	26.4 1.5	24.2 0.3	24.4 0.3	24.4 0.2	25.9 0.3	27.0 0.3	30.5 0.1	30.0 0.0	29.8 0.0
2	15.1 0.2	11.5 0.3	11.2 0.2	12.7 0.3	13.5 0.2	11.9 0.2	11.9 0.1	7.9 0.0	15.8 0.1	15.9 0.7	16.9 0.5	18.9 0.3
3	24.5 0.2	25.3 0.2	27.0 0.2	29.9 0.0	30.1 0.1	29.4 0.2	29.0 0.2	28.1 0.1	27.5 0.3	26.4 0.3	26.9 1.0	27.1 0.1
4	-10.1 0.1	-10.1 0.1	-10.2 0.1	-9.6 0.1	-8.3 0.2	-8.1 0.4	-7.4 0.2	-6.7 0.3	-6.9 0.1	-7.0 0.0	-5.5 0.3	-5.0 0.2
5	-9.7 0.1	-10.9 0.1	-9.9 0.1	-9.0 0.6	-9.3 0.4	-10.0 0.2	-10.5 0.1	-10.0 0.2	-11.8 0.1	-10.0 0.2	-9.9 0.1	-9.2 0.0
6	-13.1 0.1	-13.2 0.1	-12.4 0.3	-11.2 0.2	-10.7 0.2	-9.2 0.1	-7.8 0.1	-6.4 0.2	-6.6 0.1	-9.5 0.1	-10.0 0.1	-5.0 0.0
7	15.6 0.7	16.6 1.0	17.9 1.6	20.3 1.3	22.2 1.2	23.8 1.3	25.8 1.2	26.4 1.0	27.1 1.1	28.5 1.3	27.1 1.3	27.0 1.2
8	29.2 0.3	29.4 0.4	29.2 0.2	30.9 1.5	30.8 1.4	30.7 1.5	30.4 1.2	29.6 0.9	27.9 0.7	26.3 0.5	24.3 0.4	19.9 0.1
9	-6.0 0.0	1.2 0.0	4.1 0.0	6.1 0.0	5.9 0.0	6.9 0.0	9.3 0.2	9.9 0.5	9.9 0.3	10.4 0.5	10.1 0.1	10.9 0.5
10	17.4 0.1	18.0 0.0	19.0 0.0	18.8 0.2	20.3 0.2	21.6 0.4	23.1 0.3	24.4 0.1	25.0 0.1	27.0 0.1	30.0 0.9	23.5 0.5
11	16.3 0.2	16.7 0.4	17.1 0.4	16.0 0.1	15.2 0.3	14.2 0.2	12.7 0.0	10.2 0.0	8.8 0.0	17.8 0.2	17.0 0.2	17.3 0.1
12	26.5 0.2	28.1 0.1	29.0 0.1	30.0 0.1	31.2 0.2	31.3 0.1	31.3 0.1	31.0 0.0	31.0 0.0	30.9 0.0	30.6 0.0	30.1 0.0
13	28.3 0.3	30.1 0.6	33.3 1.4	32.8 0.8	33.2 0.2	33.1 0.0	33.2 0.2	33.3 0.1	33.1 0.3	33.0 0.6	33.0 0.7	32.0 0.0
14	3.5 0.3	3.0 0.3	17.8 0.8	18.5 0.4	19.2 1.1	31.2 1.5	25.0 0.0	20.1 0.8	18.7 0.5	16.4 0.5	14.8 0.7	9.0 0.1
15	15.7 0.7	16.9 0.5	20.0 0.5	17.0 0.5	17.1 0.4	17.5 0.1	24.5 0.2	27.3 0.2	30.0 0.2	32.4 0.3	32.0 0.3	31.9 0.8
16	30.4 0.3	30.5 0.1	30.4 0.0	31.0 0.4	31.6 0.6	31.0 0.4	30.8 0.8	29.8 0.7	29.0 0.3	29.0 0.2	29.2 0.4	29.0 0.5
17	-3.6 0.0	-4.0 0.0	-4.2 0.2	-3.4 0.1	-2.7 0.0	-3.0 0.1	-5.2 0.0	-8.0 0.0	-9.9 0.0	-9.9 0.0	-9.7 0.1	-8.0 0.4
18	31.8 1.3	33.9 1.9	33.4 2.3	33.6 2.7	33.6 1.6	30.0 0.6	29.3 0.9	29.9 0.9	30.1 1.1	29.4 0.5	29.5 0.5	29.4 0.4
19	30.0 0.3	30.0 0.2	29.8 0.1	29.7 0.2	29.4 0.1	29.8 0.3	30.0 0.2	30.0 0.1	30.0 0.0	30.0 0.2	30.1 0.3	30.5 0.5
20	29.0 0.1	29.4 0.3	29.1 0.2	29.9 0.3	30.2 0.2	30.2 0.0	30.3 0.1	30.7 0.2	31.0 0.1	31.1 0.1	31.2 0.2	31.2 0.2
21	32.0 0.1	32.0 0.2	31.9 0.4	31.8 0.2	31.2 0.2	30.8 0.2	30.1 0.2	28.1 0.7	26.8 0.7	27.1 1.5	26.9 1.7	26.2 0.5
22	29.8 0.1	30.0 0.0	31.0 0.2	31.1 0.1	31.3 0.2	33.2 1.4	31.0 1.6	30.0 1.6	29.8 1.8	29.5 2.0	30.0 2.3	31.0 3.2
23	31.0 0.0	32.7 0.7	34.2 0.8	33.6 0.4	33.6 0.2	33.7 0.1	34.0 0.2	33.2 0.1	33.4 0.0	33.2 0.1	33.2 0.2	33.0 0.2
24	30.0 3.1	28.6 3.0	28.0 3.0	27.7 3.5	28.0 4.4	28.2 4.4	27.0 1.0	26.3 0.3	25.8 0.1	25.8 0.7	25.9 0.4	26.9 1.3
25	26.4 2.0	27.4 2.3	26.8 2.1	27.0 2.1	27.0 2.1	27.1 2.1	27.9 3.1	27.2 2.2	27.6 2.0	27.1 1.7	27.3 0.3	26.5 1.1
26	29.1 0.2	29.0 0.2	29.0 0.2	28.1 0.2	28.0 1.0	25.5 0.8	23.6 0.5	23.1 1.0	23.9 1.4	25.0 1.6	25.0 1.1	23.5 0.6
27	25.5 0.8	25.8 0.9	25.9 1.0	25.0 0.6	25.8 0.6	26.3 0.1	27.0 0.0	27.8 0.1	28.3 0.0	29.0 0.0	22.0 0.1	13.9 0.2
28	5.9 1.0	5.4 0.7	5.4 0.6	6.2 0.9	6.8 1.0	6.8 0.9	7.9 0.4	5.9 0.6	5.6 0.5	6.8 0.7	8.0 0.4	8.2 0.5
29	-4.0 0.0	-4.1 0.5	-1.1 0.6	-1.1 0.2	-3.0 0.1	-1.7 0.3	-1.2 0.3	-0.3 0.4	-0.0 0.2	-0.9 0.2	-1.1 0.2	-1.9 0.1
30	-5.2 0.2	-3.3 0.3	-1.7 0.2	-0.7 0.1	1.0 0.0	4.1 0.0	4.9 0.0	5.1 0.1	5.6 0.3	5.9 0.4	5.5 0.5	5.7 0.6
31	7.6 0.2	8.3 0.4	7.9 0.2	6.8 0.0	6.0 0.1	4.8 0.1	3.1 0.1	2.0 0.1	0.8 0.0	0.4 0.0	0.9 0.0	2.4 0.2
Means	16.3 0.43	16.8 0.55	17.9 0.63	18.3 0.63	18.5 0.61	18.9 0.59	18.9 0.44	18.4 0.44	18.5 0.41	18.9 0.50	18.8 0.49	18.2 0.46

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	30.1 0.0	31.7 0.3	31.2 1.0	26.9 0.5	23.0 0.7	21.3 0.8	19.3 0.9	17.9 1.3	16.8 1.6	16.0 2.1	16.9 1.0	15.2 0.5	24.7 0.7
2	19.7 0.6	20.7 0.4	21.0 0.1	21.9 0.0	22.9 0.1	24.3 0.2	25.9 0.7	24.1 0.3	24.5 0.8	24.0 0.4	24.0 0.0	24.2 0.2	18.3 0.3
3	11.2 0.2	4.1 0.0	1.2 0.0	-1.1 0.0	-2.4 0.1	-4.0 0.0	-4.0 0.0	-3.9 0.1	-5.4 0.2	-6.2 0.1	-8.1 0.1	-10.1 0.2	12.6 0.2
4	-4.3 0.3	-4.2 0.4	-3.7 0.2	-2.8 0.0	-2.0 0.1	-1.2 0.3	-1.7 0.2	-2.0 0.1	-3.1 0.0	-3.3 0.2	-3.3 0.2	-4.6 0.3	-5.4 0.2
5	-9.3 0.1	-9.2 0.0	-8.0 0.1	-9.5 0.1	-10.0 0.0	-11.1 0.2	-12.2 0.3	-13.5 0.0	-13.2 0.0	-13.7 0.0	-13.8 0.0	-13.5 0.0	-10.7 0.1
6	-4.2 0.2	-7.8 0.1	-6.8 0.1	-6.6 0.3	-7.0 0.2	-2.2 0.3	12.1 0.2	13.0 0.0	14.9 0.1	17.1 0.1	18.8 0.7	17.3 0.2	-2.4 0.2
7	31.0 1.2	31.0 2.5	31.0 2.1	31.2 2.0	31.0 2.2	30.3 1.7	30.0 1.0	30.5 1.2	31.1 1.9	29.9 1.9	31.6 1.8	30.0 1.0	27.0 1.4
8	13.0 0.3	7.9 0.8	2.9 0.1	-0.3 0.1	-4.2 0.4	-5.0 0.3	-7.3 0.0	-7.5 0.3	-8.0 0.4	-9.0 0.2	-7.9 0.1	-8.0 0.0	12.7 0.5
9	10.6 0.4	10.9 0.2	10.6 0.2	10.0 0.0	9.7 0.1	15.2 0.2	16.2 0.0	16.4 0.0	16.3 0.0	15.3 0.0	15.3 0.0	16.4 0.1	10.1 0.2
10	22.2 0.2	21.1 0.1	20.1 0.3	20.5 0.3	20.4 0.2	20.3 0.3	19.5 0.3	18.0 0.6	17.3 0.5	16.6 0.7	15.9 0.1	16.1 0.2	20.7 0.3
11	18.2 0.0	18.9 0.3	19.4 0.2	19.3 0.1	18.7 0.3	19.0 0.0	20.6 0.2	21.0 0.0	24.3 0.2	24.6 0.4	24.4 0.2	26.0 0.1	18.1 0.2
12	31.0 0.0	29.3 0.8	28.4 0.0	28.0 0.0	28.8 0.0	28.0 0.2	28.0 0.0	27.8 0.1	26.5 0.0	27.0 0.0	27.0 0.0	28.0 0.2	29.1 0.1
13	32.0 0.0	31.1 0.0	18.0 0.1	9.8 0.0	4.1 0.0	1.3 0.0	0.8 0.0	0.1 0.0	0.9 0.0	-0.1 0.0	1.4 0.2	0.9 0.2	20.4 0.3
14	13.6 0.6	13.4 0.5	13.4 0.3	13.7 0.2	14.9 0.3	16.9 0.4	17.2 0.3	18.4 1.4	18.0 1.0	19.0 1.4	15.9 0.6	14.9 0.2	16.1 0.6
15	32.0 0.5	31.8 0.6	30.5 0.6	30.0 0.4	30.0 0.4	30.9 0.7	31.8 0.8	31.5 0.5	32.1 0.4	31.4 0.2	30.8 0.1	31.0 0.2	27.3 0.4
16	27.0 0.8	20.9 0.4	13.8 0.0	11.5 0.0	10.3 0.0	7.8 0.0	3.7 0.0	2.2 0.0	1.4 0.0	-0.9 0.0	-2.1 0.0	-3.3 0.0	18.9 0.2
17	-7.0 0.0	-6.0 0.0	-0.1 0.7	-1.2 0.6	8.1 0.3	11.1 0.2	14.7 0.0	18.7 0.1	20.0 0.0	22.8 0.3	27.0 0.6	30.0 1.0	2.8 0.2
18	29.5 0.4	29.6 0.3	29.1 0.1	30.0 0.7	29.7 0.2	30.0 0.2	30.0 0.1	30.0 0.3	29.8 0.3	30.2 0.2	29.7 0.3	29.7 0.2	30.5 0.8
19	30.5 0.5	30.1 0.2	30.4 0.4	30.1 0.7	29.8 0.4	30.0 0.7	30.0 0.7	29.2 0.5	28.9 0.6	29.0 0.3	28.9 0.3	29.2 0.2	29.8 0.3
20	30.9 0.4	30.8 0.4	30.8 0.3	30.8 0.1	31.0 0.0	31.7 0.1	31.9 0.3	32.3 0.3	32.1 0.1	32.0 0.2	32.0 0.2	32.0 0.2	30.9 0.2
21	26.8 1.1	25.1 0.3	24.6 0.6	24.6 0.6	24.8 0.7	25.8 0.6	26.2 0.5	25.8 0.0	28.0 0.1	28.7 0.0	29.4 0.3	28.8 0.0	28.1 0.5
22	31.1 1.6	29.8 1.6	29.5 2.5	28.4 1.9	24.7 0.6	26.2 0.9	26.2 0.6	27.1 0.7	29.0 1.1	28.0 0.7	29.2 0.5	30.4 0.1	29.5 1.2
23	32.7 0.5	32.1 0.5	31.5 0.5	32.1 0.7	33.5 3.8	32.3 3.8	31.3 3.4	31.7 3.8	31.5 3.5	30.9 3.6	30.3 3.0	30.4 3.4	32.5 1.5
24	25.9 0.9	26.5 1.7	27.7 1.6	27.7 0.7	25.9 1.2	22.1 1.0	20.6 1.5	19.8 0.8	19.8 0.3	21.7 1.9	22.7 1.7	25.2 1.4	25.6 1.8
25	26.0 1.0	26.0 1.3	26.3 1.5	25.7 0.8	25.5 0.7	25.2 0.4	24.9 0.3	24.9 0.3	26.1 0.2	27.2 0.3	27.8 0.4	28.2 0.1	26.6 1.2
26	22.9 0.3	22.8 0.6	22.8 0.8	22.2 0.3	22.7 0.6	22.3 0.4	22.5 1.5	22.9 1.3	19.7 0.8	21.0 0.7	23.9 0.5	26.0 0.6	24.4 0.8
27	14.3 0.4	13.9 1.0	12.9 1.4	12.1 1.6	9.0 0.8	8.7 0.9	13.2 1.2	13.2 1.2	13.9 0.8	7.9 0.1	6.8 0.4	6.0 0.7	18.1 0.6
28	7.9 0.7	5.7 0.6	2.4 0.1	0.9 0.0	3.6 0.3	3.0 0.1	2.7 0.2	0.9 0.1	-0.1 0.1	-1.9 0.2	-2.6 0.5	-2.9 0.2	4.1 0.5
29	-1.5 0.3	-1.6 0.4	-1.0 0.1	-1.1 0.2	-1.3 0.2	-3.0 0.1	-4.3 0.4	-5.1 0.2	-4.7 0.2	-4.2 0.1	-5.8 0.0	-5.2 0.2	-2.5 0.2
30	5.2 0.2	5.1 0.2	5.1 0.1	5.9 0.5	6.1 0.1	6.0 0.2	6.9 0.1	8.7 0.8	8.2 0.2	8.1 0.2	8.0 0.4	8.0 0.4	4.5 0.2
31	4.7 0.6	5.9 0.5	4.3 0.4	2.1 0.1	1.9 0.0	0.0 0.1	-0.6 0.1	-0.6 0.1	-0.2 0.0	-1.1 0.0	-3.1 0.0	-4.3 0.0	2.5 0.1
Means	17.9 0.43	17.0 0.53	16.1 0.53	15.2 0.44	14.9 0.48	15.1 0.49	15.3 0.51	15.3 0.53	15.4 0.50	15.1 0.53	15.2 0.46	15.3 0.40	16.9 0.52

AIR TEMPERATURE AND DEPRESSION OF WET BULB.

AUGUST 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	-5.1 0.0	-5.3 0.0	-6.3 0.0	-7.3 0.0	-8.9 0.0	-10.2 0.1	-14.0 0.0	-14.9 0.0	-15.4 0.0	-14.2 0.0	-11.6 0.2	-10.4 0.2
2	5.4 0.3	7.2 0.5	9.8 0.0	13.0 0.0	15.2 0.0	15.2 0.0	17.4 0.4	20.1 2.1	20.2 2.2	21.0 2.8	21.2 1.4	22.4 2.4
3	24.4 0.4	24.5 0.5	25.0 0.2	25.8 0.8	25.9 0.6	26.3 0.3	26.9 0.4	27.3 0.3	28.0 0.3	28.4 0.4	28.0 0.0	28.3 0.5
4	21.0 0.1	22.0 0.2	24.0 0.5	23.6 0.5	25.0 0.5	23.0 0.2	21.0 0.2	18.2 1.2	16.9 2.0	16.0 1.0	16.9 1.2	16.9 0.9
5	28.2 0.4	29.0 0.5	30.0 0.3	30.9 0.4	31.1 0.0	31.2 0.0	32.0 0.1	32.2 0.0	32.7 0.1	34.0 2.0	35.7 4.0	36.0 4.8
6	37.2 2.3	38.0 3.2	36.2 2.2	35.0 1.3	34.8 1.2	32.0 0.0	32.0 0.0	31.8 0.3	31.7 0.0	31.7 0.0	31.8 0.3	32.8 0.5
7	16.2 0.6	12.9 0.7	11.5 0.8	10.3 0.9	10.9 0.2	10.1 0.9	8.9 1.0	8.8 0.8	8.2 0.3	8.4 0.3	8.3 0.4	7.9 0.5
8	0.0 0.1	-0.3 0.2	-0.1 0.2	-0.6 0.0	-1.5 0.2	-2.1 0.0	-2.1 0.0	-2.2 0.2	-2.6 0.2	-1.7 0.3	1.6 0.6	1.1 0.3
9	9.8 0.6	9.9 0.1	11.9 0.4	13.7 0.5	14.9 0.5	14.8 0.3	14.4 0.4	13.4 0.0	13.9 0.0	14.2 0.0	15.0 0.1	15.1 0.1
10	22.0 0.9	22.1 0.4	23.0 0.5	23.9 0.8	24.6 0.7	25.0 0.7	25.3 0.5	25.9 0.8	26.0 5.5	26.8 0.8	26.3 0.3	26.1 0.2
11	26.0 0.7	27.0 0.8	27.0 0.6	27.4 0.3	27.9 0.7	28.2 0.6	27.0 0.4	26.5 0.5	27.0 0.4	26.8 0.3	27.4 0.4	27.0 0.5
12	28.2 0.0	28.9 0.3	28.7 0.0	29.0 1.0	29.2 0.1	28.7 0.1	26.4 0.4	24.0 0.6	22.3 0.6	22.2 0.8	24.4 1.1	24.3 0.4
13	26.4 0.5	27.1 0.5	27.0 0.6	24.2 0.2	21.9 0.1	24.0 0.5	25.6 0.7	26.3 0.4	28.0 0.6	29.0 0.5	30.5 0.5	31.8 1.2
14	32.2 1.1	32.1 1.1	31.3 0.5	31.8 0.9	32.4 1.2	36.2 4.0	33.1 1.1	32.2 1.2	31.1 0.8	33.0 0.9	32.3 1.3	31.8 0.9
15	30.5 1.3	30.3 0.9	30.2 1.1	30.0 0.9	29.9 0.9	29.7 0.7	30.0 0.8	30.0 0.6	30.8 0.8	31.0 1.0	30.5 0.5	30.4 0.4
16	29.9 0.6	30.0 0.3	30.0 0.3	29.7 0.5	29.3 0.3	29.2 0.2	28.8 0.2	28.3 0.2	27.7 0.2	27.0 0.8	26.7 0.7	26.9 1.4
17	25.1 0.2	25.0 0.1	25.4 0.5	25.6 0.4	25.5 0.3	25.8 0.2	26.1 0.3	27.1 0.4	27.4 0.5	28.3 0.3	28.6 0.4	29.0 0.2
18	30.0 0.2	30.8 0.8	30.9 0.2	30.6 2.0	29.3 1.7	28.5 1.3	27.7 0.6	25.9 1.1	23.9 0.9	23.5 0.6	24.1 1.1	25.4 1.6
19	17.4 0.6	17.9 0.8	18.0 0.8	18.3 0.5	16.9 0.1	13.5 0.4	12.1 0.2	11.9 0.2	11.9 0.1	12.1 0.2	12.7 0.3	11.8 0.1
20	9.9 0.3	9.1 0.4	8.9 0.5	8.6 0.6	7.9 0.1	7.1 0.4	7.0 0.8	7.0 0.2	8.0 0.0	9.5 0.4	10.2 0.2	11.7 0.5
21	12.0 0.1	11.8 0.1	10.8 0.1	10.9 0.2	9.5 0.2	8.7 0.0	5.8 0.0	4.7 0.0	4.8 0.0	7.2 0.0	7.7 0.0	8.7 0.0
22	15.9 0.1	16.3 0.1	16.3 0.0	17.6 0.0	19.7 0.0	19.0 0.0	19.1 0.0	19.6 0.1	19.7 0.2	20.1 0.1	20.4 0.3	21.9 0.8
23	28.0 0.7	28.0 0.5	28.2 0.4	28.4 0.3	29.0 0.6	28.9 0.7	29.1 0.1	29.0 0.0	29.0 0.4	29.2 0.2	29.0 0.1	29.1 0.2
24	30.9 0.4	30.8 0.5	30.5 0.5	30.2 0.2	30.0 0.2	29.2 0.2	29.0 0.1	28.5 0.1	28.8 0.0	29.2 0.0	29.9 0.3	29.8 0.2
25	8.4 0.5	8.4 0.3	7.9 0.2	6.9 0.2	6.1 0.2	5.2 0.4	4.0 0.1	3.8 0.3	3.9 0.2	3.8 0.1	3.8 0.1	3.5 0.1
26	4.0 0.1	3.9 0.1	3.7 0.1	4.7 0.1	4.1 0.0	3.2 0.0	2.7 0.0	4.7 0.4	4.9 0.5	5.7 0.6	7.9 0.2	7.2 0.1
27	13.3 0.2	14.9 0.2	21.8 0.5	16.9 0.0	16.9 0.0	17.3 0.2	21.0 0.2	20.6 0.5	21.0 0.3	20.8 0.5	21.0 0.3	21.7 0.6
28	22.3 0.3	22.0 0.4	22.3 0.6	22.4 0.6	22.3 0.5	22.7 0.7	22.8 0.8	22.8 0.8	22.1 0.7	22.3 0.5	22.9 0.9	22.4 0.6
29	24.0 0.2	24.5 0.6	24.5 0.6	24.1 0.3	24.0 0.2	23.2 0.4	22.8 0.6	23.0 0.4	22.8 0.6	22.4 0.4	22.0 0.4	21.8 0.8
30	20.2 0.4	20.0 0.9	19.3 0.3	19.7 0.8	19.0 0.8	18.4 0.6	18.0 1.0	17.5 0.7	15.9 0.2	16.1 0.1	15.5 0.5	15.0 0.0
31	4.2 0.0	3.4 0.0	2.3 0.0	-0.1 0.0	-1.9 0.0	-5.7 0.1	-4.0 0.2	-4.0 0.0	-3.7 0.1	-3.3 0.0	-4.0 0.0	-4.0 0.1
Means	19.0 0.46	19.1 0.52	19.1 0.44	19.2 0.49	19.1 0.39	18.6 0.46	18.2 0.37	18.0 0.46	17.9 0.60	18.3 0.51	18.9 0.58	19.1 0.68

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	-9.0 0.0	-8.6 0.0	-9.9 0.2	-10.0 0.0	-9.2 0.0	-8.8 0.1	-8.0 0.2	-8.2 0.3	2.9 0.6	5.3 0.3	5.3 0.3	3.7 0.2	-7.4 0.1
2	21.3 1.0	19.5 0.5	19.1 1.2	18.8 1.8	17.8 1.1	13.0 0.1	12.9 0.7	17.0 0.8	16.1 0.2	16.8 0.6	23.2 0.2	23.8 0.2	17.0 0.9
3	27.4 0.4	25.0 0.0	22.0 0.0	19.9 0.2	19.1 0.1	16.3 0.3	16.1 0.1	15.8 0.6	14.1 0.2	15.4 0.4	19.9 0.7	19.9 0.7	23.1 0.3
4	16.2 0.5	16.9 1.0	19.2 0.2	22.1 0.1	24.7 0.7	25.3 0.2	25.7 0.2	25.7 0.0	25.7 0.7	26.5 1.0	27.7 0.9	28.0 0.8	22.0 0.6
5	36.1 4.3	35.6 3.7	33.8 2.8	33.9 2.9	34.9 3.2	34.9 2.9	35.9 2.9	37.3 3.4	38.0 3.9	37.0 3.0	37.0 3.0	37.0 3.0	33.9 2.1
6	33.6 1.6	35.0 3.3	34.8 3.0	33.1 1.7	31.9 0.6	31.3 1.5	30.9 2.0	30.2 1.3	27.6 2.1	25.9 1.0	21.6 0.9	18.8 0.1	31.7 1.3
7	7.9 0.4	7.0 0.3	5.9 0.2	5.1 0.2	4.7 0.1	4.1 0.3	2.0 0.3	0.9 0.3	0.2 0.1	0.1 0.1	0.5 0.4	0.1 0.1	6.7 0.5
8	1.2 0.3	0.0 0.1	-1.3 0.2	-4.5 0.4	-5.2 0.1	-5.3 0.3	-4.9 0.1	-4.8 0.2	-4.6 0.2	-6.4 0.3	-2.7 0.1	7.8 0.5	-1.6 0.4
9	15.9 0.1	17.0 0.1	17.9 0.3	18.7 0.5	19.5 0.4	19.3 0.3	19.5 0.3	19.5 0.3	20.1 0.1	21.0 0.7	21.2 0.4	21.7 0.7	16.3 0.3
10	26.2 0.2	26.2 0.2	26.1 0.1	26.0 0.5	25.5 0.4	24.9 0.2	24.0 0.2	24.0 0.4	24.2 0.3	24.7 0.9	25.1 1.0	25.1 0.7	25.0 0.8
11	27.2 0.2	27.5 0.1	27.2 0.1	27.0 0.0	26.4 0.0	25.3 0.3	26.0 0.0	26.9 0.1	27.3 0.5	27.4 0.2	28.0 0.4	28.1 0.0	27.1 0.4
12	20.8 0.9	18.4 0.5	18.0 0.4	22.2 0.7	22.7 0.8	24.2 0.6	24.1 0.5	24.9 0.4	26.0 0.9	25.1 0.3	26.0 0.5	27.0 0.8	24.8 0.6
13	33.0 1.4	32.0 1.0	31.8 3.8	31.2 3.4	26.4 1.4	27.2 2.3	27.7 1.5	28.8 1.5	30.1 1.3	31.0 1.5	30.4 1.1	33.1 2.1	28.5 1.2
14	30.3 0.3	31.2 0.2	30.0 0.1	30.3 0.5	30.0 0.3	29.7 0.6	28.9 0.4	29.1 0.4	29.5 0.5	29.5 1.8	29.9 0.9	30.4 1.4	31.2 1.0
15	30.2 0.7	30.0 0.6	30.0 0.7	29.5 0.5	29.8 0.5	30.1 0.3	30.0 0.7	29.7 0.5	29.9 0.7	30.0 0.6	29.9 0.6	29.4 0.4	30.1 0.7
16	26.4 0.7	26.1 0.8	25.9 1.0	25.4 0.9	25.4 1.0	25.9 0.9	26.0 1.0	26.3 0.7	26.6 0.7	27.1 1.0	26.9 0.7	25.7 0.6	27.4 0.7
17	28.7 0.4	28.2 0.1	27.9 0.3	27.7 0.5	27.1 0.3	27.3 0.4	28.1 0.1	29.8 1.8	29.6 0.5	29.8 0.5	35.0 3.2	30.0 0.6	27.8 0.6
18	26.9 1.9	24.7 1.9	23.1 1.3	23.0 1.4	20.3 2.4	19.0 0.5	18.3 0.3	17.8 0.1	17.8 0.7	18.0 0.2	18.4 0.1	17.9 1.0	24.0 1.0
19	11.2 0.3	10.9 0.4	9.9 0.3	9.4 0.4	8.9 0.3	9.0 0.1	9.6 0.5	9.9 0.3	10.8 0.6	10.9 0.6	10.9 0.6	11.0 0.4	12.4 0.4
20	12.0 0.3	12.2 0.2	13.7 0.7	13.4 0.5	13.1 0.1	13.2 0.2	12.9 0.2	13.0 0.0	12.0 0.0	11.2 0.2	11.7 0.4	11.9 0.2	10.6 0.3
21	9.8 0.0	8.1 0.0	6.9 0.6	5.9 0.4	4.9 0.0	5.9 0.0	13.8 0.0	14.2 0.2	14.1 0.3	14.2 0.4	14.8 0.1	15.7 0.7	9.8 0.3
22	23.7 0.0	24.0 0.9	24.1 0.7	24.6 0.7	25.0 0.9	25.6 0.8	25.6 0.8	25.9 0.8	26.2 0.2	27.0 0.8	27.5 0.7	27.8 0.6	22.2 0.4
23	29.1 0.2	29.3 0.3	29.0 0.4	29.0 0.8	29.2 0.4	30.0 0.7	31.3 0.5	31.3 0.5	31.1 0.4	31.0 0.5	30.8 0.3	30.7 0.4	29.4 0.4
24	30.2 0.0	28.8 0.0	26.9 0.3	25.1 0.2	22.9 0.1	19.1 0.2	16.0 0.1	14.3 0.3	12.8 0.1	11.9 0.3	10.7 0.2	9.1 0.2	24.4 0.2
25	3.3 0.2	3.7 0.3	4.2 0.3	3.6 0.5	3.6 0.5	3.4 0.4	3.2 0.3	2.9 0.3	2.2 0.3	2.8 0.2	2.9 0.2	3.8 0.1	4.4 0.3
26	9.1 0.0	10.7 0.0	9.7 0.0	8.2 0.3	6.9 0.6	5.0 0.2	3.2 0.0	-1.1 0.0	1.3 0.0	1.8 0.0	1.9 0.0	2.7 0.0	4.8 0.1
27	13.3 0.2	14.9 0.2	21.8 0.5	16.9 0.0	16.9 0.0	17.3 0.2	21.0 0.2	20.6 0.5	21.0 0.3	20.8 0.5	21.0 0.3	21.7 0.6	13.4 0.2
28	22.1 0.4	22.2 0.4	22.0 0.4	22.1 0.3	21.8 0.4	21.8 0.2	22.1 0.1	22.5 0.2	22.1 0.1	22.2 0.4	22.1 0.1	22.7 0.2	22.3 0.5
29	21.8 0.5	21.3 0.2	20.9 0.3	21.3 0.3	20.4 1.0	21.0 1.0	20.9 0.9	21.0 1.0	21.2 0.4	21.3 0.3	21.2 0.3	20.9 0.9	22.2 0.5
30	14.9 0.0	15.0 0.3	14.0 0.1	12.0 0.0	9.9 0.0	8.2 0.0	5.5 0.0	4.2 0.0	3.9 0.0	3.8 0.0	3.0 0.0	4.1 0.0	13.0 0.2
31	-3.1 0.0	-2.4 0.0	-1.7 0.0	-1.7 0.0	-1.4 0.0	-0.8 0.0	-0.4 0.0	0.0 0.0	0.0 0.0	-0.1 0.0	-0.1 0.0	-0.3 0.0	-1.4 0.0
Means	19.3 0.56	19.0 0.57	18.1 0.66	18.4 0.64	17.9 0.59	17.6 0.50	17.6 0.50	17.7 0.54	18.1 0.56	18.1 0.59	18.6 0.59	19.0 0.59	18.55 0.56

AIR TEMPERATURE AND DEPRESSION OF WET BULB.

SEPTEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	-1.0 0.0	-1.1 0.0	-1.8 0.2	-2.1 0.5	-2.9 0.1	-3.9 0.3	-4.1 0.5	-4.9 0.2	-6.9 0.1	-8.4 0.3	-9.2 0.3	-9.9 0.2
2	-21.2 0.2	-22.9 0.0	-22.7 0.1	-24.0 0.0	-22.9 0.0	-24.4 0.0	-23.6 0.1	-23.9 0.0	-20.0 0.9	-19.2 0.7	-18.6 0.2	-18.0 0.4
3	-22.0 0.2	-21.0 0.0	-20.9 0.0	-19.6 0.1	-13.8 0.1	-12.0 0.2	-9.0 0.2	-8.2 0.1	-5.2 0.1	-3.1 0.0	1.5 0.1	6.2 0.2
4	-18.1 0.0	-16.9 0.0	-16.0 0.0	-15.0 0.0	-16.3 0.0	-17.4 0.0	-17.5 0.0	-16.7 0.0	-15.4 0.0	-14.4 0.0	-12.0 0.0	-10.0 0.0
5	5.9 0.3	8.9 0.8	13.1 0.6	15.9 0.8	16.4 0.6	18.6 0.6	20.0 0.7	21.0 0.6	20.8 0.5	20.5 0.4	20.5 0.3	21.0 0.2
6	25.6 1.0	30.9 2.4	29.3 1.3	30.0 1.7	29.3 0.8	30.0 1.0	32.6 1.6	29.5 0.8	31.6 0.8	30.2 0.7	29.1 0.0	29.0 0.0
7	25.9 1.0	25.8 1.0	25.1 0.9	23.9 0.9	23.3 0.4	22.9 0.3	21.8 0.6	19.8 0.9	18.2 0.5	12.5 0.2	10.2 0.2	9.7 0.1
8	-4.6 0.3	-4.3 0.3	-4.0 0.3	-4.4 0.4	-3.9 0.2	-4.0 0.4	-4.0 0.2	-3.6 0.4	-2.7 0.4	-1.9 0.4	-0.3 0.4	1.2 0.3
9	5.9 1.0	11.4 1.5	8.7 0.8	8.8 0.8	4.5 0.5	15.5 0.8	16.5 1.6	17.4 0.6	18.4 0.4	19.3 0.2	19.7 0.0	20.1 0.0
10	26.2 0.3	26.3 0.4	26.8 0.3	27.7 0.6	28.0 0.0	29.8 0.5	28.6 0.1	28.9 0.3	29.4 0.3	30.0 0.2	30.0 0.1	30.0 0.0
11	32.7 1.0	32.1 1.1	32.1 0.5	32.7 1.7	34.2 2.2	36.2 3.0	38.6 3.0	40.0 4.9	31.9 1.3	32.8 0.5	30.1 0.2	29.0 0.6
12	29.8 0.4	29.7 0.4	29.9 0.3	29.1 0.1	29.1 0.1	29.2 0.1	29.6 0.3	29.8 0.1	30.0 0.1	30.1 0.1	30.5 0.1	32.3 0.6
13	28.8 0.7	29.2 0.1	28.9 0.5	28.0 0.0	27.4 0.0	27.3 0.0	27.3 0.0	27.5 0.0	28.1 0.6	29.0 0.6	29.0 0.2	27.8 0.1
14	21.1 0.1	21.5 0.1	22.0 0.1	22.9 0.0	24.0 0.2	23.7 0.4	24.2 0.3	25.2 0.5	25.1 0.4	23.0 0.1	22.2 0.2	21.3 0.1
15	14.7 0.0	15.7 0.3	15.8 0.1	16.8 0.9	16.0 0.0	16.9 0.4	17.1 0.6	16.9 0.4	17.7 0.4	17.2 0.1	18.2 0.8	16.8 0.1
16	4.8 0.2	4.1 0.1	4.2 0.2	5.2 0.2	5.9 0.2	6.1 0.1	5.9 0.0	6.8 0.3	5.8 0.3	7.0 0.0	6.0 0.0	4.9 0.0
17	0.9 0.1	-0.5 0.0	-0.1 0.1	0.9 0.0	1.1 0.1	1.3 0.2	1.9 0.2	1.9 0.1	2.2 0.1	2.4 0.2	2.9 0.0	3.3 0.2
18	12.9 0.0	13.8 0.1	14.2 0.0	15.1 0.0	16.0 0.0	16.7 0.2	16.9 0.4	17.9 0.2	19.0 0.2	19.3 0.2	20.6 0.3	22.2 0.0
19	26.6 1.2	26.1 1.8	20.1 0.8	17.5 0.4	13.0 0.3	11.4 0.4	11.6 0.5	13.0 0.3	18.0 0.6	16.9 0.8	19.4 0.9	25.2 0.3
20	31.8 0.8	34.1 1.6	33.2 1.2	25.0 0.2	21.6 0.5	16.8 0.8	11.7 0.6	11.7 0.3	7.9 0.2	7.9 0.4	7.9 0.4	8.8 0.5
21	-3.4 0.2	-4.4 0.1	-5.2 0.0	-6.3 0.0	-6.0 0.4	-7.7 0.1	-8.7 0.2	-4.1 0.0	-0.1 1.2	-0.1 0.9	1.4 0.9	2.4 0.4
22	-3.1 0.2	-5.1 0.2	-5.0 0.0	-4.0 0.0	-4.7 0.1	-4.3 0.3	-3.0 0.0	-0.6 0.0	4.0 0.2	7.1 1.3	7.9 0.9	7.9 0.4
23	12.9 1.9	14.4 1.4	13.9 0.2	16.5 0.5	17.8 0.3	17.0 0.4	19.0 0.5	21.0 1.0	21.2 1.4	21.0 0.7	20.0 0.4	13.9 0.0
24	3.1 0.3	2.2 0.2	0.9 0.3	-1.7 0.0	-4.1 0.0	-5.0 0.0	-1.8 0.0	-0.6 0.1	-1.2 0.0	-1.4 0.0	0.9 0.0	1.9 1.0
25	19.8 0.3	20.0 0.4	20.4 0.4	21.8 0.7	23.2 0.4	24.5 0.5	25.0 0.5	25.8 0.6	26.6 0.6	28.5 0.7	29.2 0.4	30.0 0.8
26	29.5 0.0	30.0 0.4	29.1 0.1	29.1 0.0	29.5 0.0	29.0 0.2	28.5 0.2	27.2 0.2	25.2 0.0	23.4 0.2	21.9 0.0	21.4 0.4
27	11.8 0.5	10.2 0.3	10.6 0.5	7.8 0.1	4.9 0.0	6.4 0.2	6.9 0.0	14.2 0.3	15.7 0.3	15.6 0.2	16.7 0.2	18.1 0.0
28	27.0 0.5	27.0 0.5	26.1 0.1	25.2 0.1	24.8 0.3	25.1 0.3	25.4 0.4	27.2 0.4	30.0 1.0	30.5 1.0	29.5 0.6	29.1 0.1
29	15.9 0.2	13.6 0.2	12.7 0.1	14.0 0.1	14.2 0.2	14.5 0.0	14.9 0.2	15.0 0.1	14.4 0.3	14.7 0.3	16.7 0.6	18.0 0.5
30	16.0 0.0	16.9 0.0	17.2 0.1	17.7 0.1	17.3 0.1	18.1 0.1	18.8 0.0	20.2 0.2	22.1 0.3	23.8 0.8	24.8 0.8	26.0 0.5
Means	11.8 0.43	12.2 0.52	12.0 0.34	11.8 0.36	11.6 0.27	11.9 0.39	12.4 0.45	13.2 0.46	13.7 0.45	13.9 0.41	14.2 0.32	14.7 0.27

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	-10.5 0.3	-11.0 0.2	-11.6 0.3	-12.8 0.1	-15.0 0.0	-18.0 0.0	-19.5 0.0	-20.7 0.0	-19.7 0.1	-20.0 0.0	-19.8 0.0	-19.9 0.0	-10.6 0.2
2	-17.0 0.4	-16.9 0.1	-17.1 0.0	-18.9 0.2	-21.4 0.0	-23.8 0.1	-24.0 0.1	-24.5 0.2	-25.8 0.0	-23.5 0.0	-23.9 0.0	-24.0 0.2	-21.8 0.1
3	8.0 0.1	5.9 0.1	-1.0 0.1	-8.3 0.3	-14.7 0.0	-18.3 0.0	-20.0 0.0	-19.4 0.0	-19.1 0.0	-18.5 0.0	-17.3 0.0	-16.9 0.0	-11.1 0.1
4	-8.8 0.0	-8.2 0.5	-6.5 0.5	-4.9 0.7	-3.1 0.9	-3.5 0.5	-4.0 0.2	-0.3 0.2	1.7 0.6	2.4 0.3	2.9 0.3	5.5 0.6	-8.9 0.2
5	21.2 0.8	24.0 0.6	22.4 0.7	24.0 1.1	25.1 0.6	26.0 0.6	25.8 0.9	25.8 0.9	26.0 1.4	25.0 1.1	24.8 0.9	24.8 0.9	20.7 0.7
6	29.5 0.0	33.0 1.0	32.0 0.7	31.2 0.4	30.5 0.5	30.2 0.2	30.2 0.2	30.0 1.0	29.0 1.0	29.0 0.5	27.4 0.9	24.8 0.8	29.7 0.8
7	9.0 0.0	7.0 0.0	6.6 0.4	5.1 0.3	3.3 0.3	2.0 0.1	0.6 0.6	-0.9 0.1	-1.7 0.2	-2.6 0.1	-3.1 0.4	-4.0 0.3	10.8 0.4
8	1.9 0.2	3.6 0.1	3.4 0.9	3.9 1.0	3.7 1.5	2.9 1.1	3.9 1.8	2.5 1.1	-1.0 0.7	0.9 0.0	1.9 0.9	2.9 1.0	-0.2 0.7
9	21.0 0.0	21.0 0.0	21.8 0.2	23.6 0.5	24.7 0.7	24.9 0.6	25.5 0.5	25.8 0.6	26.0 0.4	26.0 0.5	26.0 1.0	26.1 0.7	19.1 0.6
10	30.0 0.0	30.0 0.0	32.3 1.1	32.8 1.5	33.0 1.8	31.8 0.1	31.0 1.0	33.0 1.6	32.3 1.0	33.5 1.7	35.0 3.0	33.5 1.5	30.4 0.7
11	29.1 0.0	29.6 0.0	31.0 0.7	31.4 0.2	31.1 0.1	30.8 0.0	30.2 0.1	31.3 0.0	30.2 0.0	29.3 0.1	29.6 0.4	29.8 0.8	31.9 0.9
12	32.0 0.0	30.0 0.5	29.9 0.6	30.8 0.8	30.2 0.4	30.0 0.8	29.8 0.5	29.4 0.6	30.2 1.2	29.8 0.9	29.0 0.3	28.4 0.2	29.9 0.4
13	26.2 0.2	26.2 0.3	26.3 0.4	25.9 0.6	25.6 0.5	25.3 0.4	25.0 0.1	24.0 0.6	23.3 0.4	23.2 0.3	22.9 0.2	22.0 0.1	26.4 0.3
14	19.0 0.1	18.2 0.1	17.2 0.1	16.9 0.0	15.9 0.0	16.0 0.1	16.2 0.3	16.2 0.3	15.2 0.1	14.6 0.4	14.9 0.2	14.6 0.3	19.6 0.2
15	17.2 0.3	15.4 0.3	15.1 0.2	13.9 0.0	13.2 0.2	11.9 0.0	11.3 0.2	9.9 0.3	8.9 0.2	7.9 0.0	6.9 0.4	5.9 0.3	14.1 0.3
16	5.8 0.1	4.4 0.0	4.9 0.1	3.7 0.5	2.7 0.2	2.1 0.0	2.0 0.0	1.7 0.3	1.5 0.2	1.0 0.0	1.0 0.0	1.7 0.1	4.1 0.1
17	3.6 0.3	4.9 0.0	4.5 0.1	3.9 0.0	3.9 0.2	2.9 0.1	1.7 0.1	-2.1 0.0	-0.9 0.0	-0.9 0.0	11.3 0.3	12.3 0.1	2.6 0.1
18	23.9 0.0	25.3 0.1	26.5 0.7	26.8 0.3	27.2 0.1	28.0 0.0	27.7 0.6	28.0 1.0	27.0 1.3	26.6 1.1	26.7 1.0	26.6 1.5	21.9 0.4
19	26.2 0.2	27.1 0.3	28.8 0.1	30.0 0.1	30.1 0.1	30.0 0.0	30.0 0.2	29.9 0.0	30.2 0.2	30.1 0.0	30.5 0.0	30.7 0.1	23.8 0.4
20	9.9 0.2	10.9 0.2	9.9 0.6	9.1 0.2	6.0 0.7	5.0 0.7	4.4 0.5	3.7 0.7	2.7 0.6	0.9 0.3	-0.1 0.3	-1.1 0.2	11.7 0.6
21	-4.1 0.2	8.6 1.3	7.4 1.0	2.6 0.5	1.6 0.5	-1.3 0.1	-3.0 0.0	-2.9 0.0	-2.1 0.0	-4.1 0.0	-2.0 0.0	-2.1 0.2	-1.5 0.3
22	11.0 0.4	12.6 0.7	12.9 2.0	11.7 1.5	9.9 0.9	11.2 0.5	10.9 2.3	10.9 2.0	11.1 2.0	12.4 1.8	12.4 1.6	13.9 2.4	5.8 1.0
23	13.6 0.2	11.9 0.0	11.6 0.0	11.8 0.5	10.9 0.3	10.6 0.3	10.8 0.3	9.9 0.3	9.7 0.3	7.9 0.3	6.1 0.2	4.9 0.0	13.7 0.5
24	8.9 1.2	9.0 1.2	9.4 0.6	7.9 0.6	9.9 0.9	10.9 0.7	11.9 0.6	12.5 0.4	14.6 0.6	15.1 0.3	16.9 0.4	18.5 0.5	5.9 0.4
25	30.0 0.2	30.4 0.2	30.8 0.1	31.6 0.5	31.5 0.3	31.0 0.2	30.9 0.1	30.7 0.4	31.7 0.5	30.2 0.1	30.9 0.2	29.9 0.1	27.7 0.4
26	19.3 0.3	18.5 0.3	18.0 0.3	17.3 0.3	17.0 0.4	15.4 0.5	15.1 0.4	14.7 0.7	14.1 0.3	14.3 0.6	14.3 0.3	13.7 0.2	21.5 0.3
27	19.9 0.0	20.9 0.0	22.3 0.1	24.2 0.5	24.9 0.7	25.5 0.5	26.9 0.8	27.5 0.3	27.0 0.9	24.9 0.2	24.7 0.7	26.2 0.3	18.1 0.3
28	29.1 0.2	30.0 0.6	30.0 0.7	30.0 0.5	28.5 0.4	27.2 0.2	26.1 0.3	24.9 0.4	23.1 0.1	21.2 0.3	19.0 0.1	17.6 0.1	26.4 0.4
29	18.0 0.9	17.5 1.0	18.5 0.7	18.0 0.7	16.2 0.2	14.1 0.1	13.8 0.2	14.7 0.1	15.6 0.5	16.2 0.2	15.4 0.2	15.6 0.1	15.5 0.3
30	27.0 0.4	27.9 0.6	30.0 0.4	29.8 0.9	28.6 0.5	28.5 0.5	29.0 0.6	29.1 0.1	29.4 0.0	30.0 0.0	30.2 1.0	31.0 1.0	24.6 0.4
Means	15.3 0.24	15.6 0.34	15.6 0.40	15.1 0.51	14.4 0.46	13.6 0.30	13.3 0.45	13.2 0.47	13.0 0.49	12.8 0.37	13.1 0.51	13.1 0.49	13.4 0.42

AIR TEMPERATURE AND DEPRESSION OF WET BULB.

OCTOBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	22.0 0.0	18.3 0.0	16.0 0.8	15.8 0.8	19.5 0.9	17.4 0.6	20.2 0.2	19.9 0.1	27.7 0.3	29.9 0.1	30.5 0.4	30.7 0.8
2	- 3.3 0.1	- 4.0 0.1	- 4.0 0.2	- 4.7 0.2	- 4.0 0.2	3.1 0.0	- 2.1 0.0	- 0.7 0.3	0.4 0.2	0.9 0.2	2.4 0.4	3.4 0.3
3	- 0.1 0.2	- 4.1 0.0	- 7.9 0.1	- 9.1 0.0	- 8.0 0.0	- 6.9 0.1	- 5.0 0.0	- 2.1 0.0	0.7 0.7	3.9 0.6	7.0 1.1	7.9 1.6
4	15.9 0.2	16.2 0.1	18.0 0.1	18.5 0.3	20.8 0.4	21.3 0.3	22.3 0.3	23.2 0.2	23.3 0.1	23.6 0.4	23.5 0.3	23.5 0.3
5	26.0 0.8	26.0 0.0	25.9 0.0	26.0 0.1	26.4 0.2	26.9 0.0	28.0 0.0	29.0 0.0	30.0 0.5	30.1 0.1	31.0 0.5	31.2 1.2
6	28.1 1.0	27.5 0.8	27.3 0.4	27.7 0.8	27.9 1.0	27.9 1.0	28.0 1.1	28.0 1.1	27.2 0.6	27.0 0.9	27.5 0.8	27.2 0.8
7	26.1 0.2	26.4 0.5	26.1 0.2	26.9 0.9	27.4 0.7	27.5 0.6	27.8 0.8	27.8 0.8	28.0 0.8	28.1 0.6	28.1 0.6	28.2 0.7
8	26.7 0.8	26.2 0.6	26.0 0.8	25.3 0.6	24.9 0.5	25.1 0.4	25.4 0.4	26.1 0.9	27.0 1.0	28.4 0.5	29.0 1.7	28.1 1.2
9	30.8 1.5	29.9 0.7	30.4 1.4	30.1 1.1	30.0 1.6	30.0 1.3	30.0 1.0	30.0 1.0	31.0 1.5	30.1 0.5	30.3 0.4	30.0 0.5
10	28.8 0.3	28.0 0.2	28.0 0.0	28.1 0.0	28.8 0.8	28.0 0.9	27.8 0.7	27.7 0.8	28.0 0.7	27.8 0.6	29.0 0.5	31.5 0.5
11	21.9 0.0	19.8 0.2	17.3 0.1	19.2 0.0	21.7 0.2	22.2 0.2	22.9 0.7	22.9 0.9	23.0 0.9	23.0 0.6	22.0 0.5	21.9 0.6
12	21.9 0.2	22.8 0.1	23.9 0.2	24.2 0.3	24.9 0.3	23.5 0.4	23.0 0.4	23.0 0.4	24.0 0.8	26.2 0.8	25.9 1.5	24.8 0.9
13	22.1 0.7	21.0 1.0	21.2 0.4	21.0 0.3	21.1 0.4	23.0 0.9	24.0 0.7	24.8 1.1	26.5 1.1	27.0 1.3	27.8 1.9	28.0 1.1
14	28.2 0.7	25.9 0.9	23.7 0.7	23.2 1.1	22.9 0.4	24.9 1.1	25.9 1.6	26.9 1.9	27.5 2.1	27.0 2.1	27.0 1.6	27.0 1.6
15	20.7 0.8	24.9 1.0	24.9 1.0	25.1 0.9	28.0 1.3	29.2 1.4	28.0 0.3	28.6 0.6	30.0 0.5	31.0 0.9	31.2 0.7	31.5 0.5
16	28.9 1.7	28.6 1.6	27.9 0.7	28.0 1.1	28.2 1.0	28.8 0.8	30.0 1.2	34.0 2.0	34.4 3.2	34.0 2.0	35.3 3.3	33.0 1.0
17	26.8 0.6	26.0 0.3	25.2 0.1	24.8 0.1	24.5 0.1	24.5 0.1	24.3 0.3	23.3 0.0	23.0 0.1	23.2 0.2	23.2 0.2	22.9 0.7
18	28.0 1.0	26.2 0.9	28.7 0.7	28.6 0.6	28.5 0.5	27.8 0.5	28.0 0.0	30.0 0.7	30.9 0.6	31.0 0.5	31.0 0.2	31.0 0.1
19	32.9 2.1	31.7 1.9	31.8 2.1	31.8 2.5	29.1 1.5	31.7 0.5	27.8 0.6	28.1 0.6	27.0 0.1	29.1 0.3	31.8 1.4	32.0 1.0
20	29.2 3.2	28.2 2.6	28.3 3.6	28.0 3.1	29.0 3.7	28.8 2.9	30.3 3.4	28.8 1.3	28.5 0.9	30.5 2.2	28.5 0.7	29.0 2.0
21	21.7 0.9	21.4 0.6	20.9 0.9	18.9 0.9	19.8 0.7	20.4 0.1	24.5 1.1	26.5 2.2	26.4 1.3	25.9 1.2	27.3 1.2	27.6 1.4
22	32.0 2.1	30.8 1.1	30.8 1.0	30.5 0.7	31.3 1.3	30.0 0.2	30.0 0.2	30.5 0.4	31.2 0.4	31.0 0.3	31.5 0.7	31.1 0.4
23	30.5 1.5	30.0 1.8	28.8 1.8	28.7 0.7	28.3 2.0	28.5 1.9	29.5 1.7	29.4 1.4	29.8 1.1	30.5 1.1	32.0 1.4	33.0 1.4
24	35.0 1.5	35.0 2.0	33.7 1.7	33.0 1.0	33.0 1.8	34.0 2.5	36.0 4.0	36.6 4.1	33.6 2.2	32.7 1.4	32.1 1.0	31.6 0.6
25	34.0 2.1	34.2 2.3	34.5 2.5	30.4 0.3	31.2 0.7	32.0 2.0	32.0 2.0	32.0 1.8	32.1 1.6	33.2 1.7	33.0 0.5	33.2 1.7
26	29.7 1.9	28.8 1.3	29.3 2.0	29.4 2.0	29.1 1.2	29.8 1.8	31.3 1.9	31.9 1.9	30.4 0.8	31.3 1.2	32.3 0.8	35.0 2.2
27	30.0 0.0	30.0 0.0	30.0 0.0	32.0 1.0	32.3 1.1	33.0 1.5	33.3 1.5	35.0 3.0	33.0 1.7	30.3 0.7	31.0 0.7	32.2 0.6
28	39.8 2.6	40.0 2.8	40.9 3.0	41.0 2.5	42.0 3.8	34.1 0.8	32.5 0.5	30.5 0.0	31.3 0.3	31.5 0.3	32.0 0.2	31.6 0.0
29	31.0 0.1	32.0 0.4	33.8 0.8	35.0 1.0	39.0 2.0	38.0 3.0	35.3 1.8	35.5 1.9	39.0 3.8	38.8 1.9	32.5 0.0	32.1 0.1
30	31.8 0.3	32.4 0.4	32.0 0.0	32.8 1.3	33.5 1.5	33.5 1.5	32.1 0.1	32.0 1.3	32.3 1.3	33.0 1.5	32.5 1.2	32.0 1.0
31	29.0 1.0	29.5 1.7	29.9 1.4	29.8 1.8	30.0 1.5	29.9 2.0	29.7 1.7	30.0 1.2	32.5 1.0	32.0 1.2	30.3 0.2	30.1 0.1
Means	26.0 0.97	25.5 0.90	25.2 0.93	25.2 0.90	25.8 1.07	25.9 1.01	26.2 0.97	26.8 1.09	27.4 1.04	27.8 0.90	28.0 0.86	28.1 0.87

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	29.2 0.8	25.1 0.3	18.1 0.9	11.9 0.2	8.2 0.3	5.9 0.1	3.9 0.1	1.9 0.1	0.7 0.1	- 1.0 0.0	- 1.7 0.1	- 2.3 0.1	15.3 0.3
2	3.6 0.5	5.5 0.4	6.5 0.4	7.9 0.1	9.4 0.4	10.1 0.2	10.9 0.3	9.0 0.4	7.9 0.1	7.1 0.1	6.8 0.2	5.9 0.0	3.0 0.2
3	10.9 1.9	10.0 1.1	8.1 0.7	7.2 0.5	8.8 0.8	8.9 0.8	9.3 0.3	9.3 0.3	9.9 0.3	10.5 0.5	13.1 0.2	15.4 0.2	4.1 0.6
4	24.0 0.3	24.7 0.4	25.0 0.5	25.3 0.7	25.3 0.8	25.1 0.6	25.1 0.3	25.5 0.5	25.9 0.7	26.0 0.4	25.7 0.5	25.9 1.0	23.1 0.4
5	30.3 0.7	30.3 0.3	30.4 0.4	31.0 0.6	30.8 0.8	30.3 0.5	30.0 0.1	30.1 0.2	30.0 0.5	29.8 0.3	28.8 0.8	28.0 0.5	29.0 0.4
6	27.1 0.5	27.0 1.0	26.3 1.1	26.1 1.1	26.0 1.1	26.0 1.1	26.0 1.0	26.2 1.0	26.5 1.4	26.2 0.6	26.1 0.3	26.1 0.3	27.0 0.9
7	28.5 0.6	28.6 0.6	28.5 0.7	28.8 0.8	28.2 1.2	28.1 0.4	27.6 0.8	28.2 0.8	27.5 0.4	27.3 0.4	27.2 0.5	27.0 0.8	27.6 0.6
8	28.5 1.4	29.5 1.0	28.1 1.0	28.0 1.1	28.0 1.1	28.0 1.1	27.7 1.1	27.2 1.0	26.9 1.0	26.9 0.7	28.2 0.5	28.9 0.7	27.3 0.9
9	30.4 0.8	31.0 1.2	32.0 1.8	31.8 2.0	31.1 1.7	28.8 0.8	28.3 0.3	28.9 0.3	29.0 0.3	28.9 0.2	28.4 0.2	28.3 0.3	30.0 1.0
10	33.6 1.6	34.0 2.1	32.0 1.9	32.3 0.5	31.0 1.0	30.1 1.5	30.0 2.0	29.0 1.2	27.4 1.0	26.0 0.5	24.0 0.0	22.7 0.2	28.9 0.8
11	21.0 0.2	21.2 0.4	22.0 0.7	22.6 0.6	22.8 0.7	22.2 0.3	23.8 0.8	22.9 0.7	21.6 0.3	21.3 0.2	21.0 0.1	21.1 0.2	21.7 0.4
12	26.8 1.4	25.8 1.6	26.1 1.9	25.5 1.3	24.5 1.2	24.7 1.7	24.1 1.3	23.5 1.3	22.5 1.0	22.6 0.7	23.0 1.0	22.8 0.9	24.2 1.0
13	29.1 0.8	29.5 0.6	29.4 0.6	29.4 0.4	29.0 0.2	29.0 0.1	29.7 0.7	30.3 0.7	31.0 1.2	30.9 1.4	30.2 1.2	29.6 0.8	26.9 0.9
14	25.6 1.1	25.1 1.8	23.8 1.1	23.0 0.1	23.0 1.0	22.1 0.8	22.0 0.7	21.8 0.6	22.0 0.9	22.0 0.9	23.3 1.1	22.1 1.1	24.4 1.1
15	31.3 0.3	31.6 0.5	33.2 1.2	36.1 4.1	31.8 2.8	31.2 2.1	31.3 1.8	31.0 2.0	30.4 1.6	30.7 1.9	30.1 1.2	29.5 1.3	29.6 1.2
16	32.0 1.3	32.0 0.2	34.2 2.2	33.7 1.8	30.8 1.2	30.0 2.0	28.3 0.5	28.0 0.8	27.4 0.5	27.1 1.0	27.2 0.1	27.3 0.4	30.4 1.3
17	22.8 0.0	23.7 0.2	23.8 0.1	24.2 0.2	24.7 0.4	24.4 0.2	23.9 0.1	25.1 0.3	25.9 0.9	26.2 0.5	26.5 0.5	27.3 0.5	24.6 0.3
18	31.1 0.1	31.4 0.3	31.7 0.5	31.2 0.2	31.0 0.0	30.7 0.1	30.5 0.3	30.5 0.3	29.9 0.2	29.7 0.6	31.0 1.8	31.1 1.4	30.1 0.5
19	32.3 1.0	31.5 0.7	32.2 2.0	31.3 1.0	30.2 0.4	31.0 0.4	31.0 1.4	31.5 1.0	33.7 3.5	32.0 2.0	31.5 2.2	30.4 2.0	31.0 1.4
20	26.6 1.4	27.0 1.5	28.7 1.8	28.0 1.8	28.1 1.6	27.3 1.7	26.5 1.6	24.5 1.6	24.0 1.1	23.0 1.5	22.0 1.1	22.0 1.1	27.3 2.0
21	27.8 1.8	30.2 1.2	30.1 2.0	31.0 1.5	30.9 1.5	30.6 1.3	30.0 1.2	30.2 2.2	30.0 2.3	32.0 3.0	33.2 2.4	34.2 3.1	27.1 1.5
22	31.0 0.3	30.9 0.2	30.9 0.2	30.7 0.3	30.8 0.3	30.3 0.2	30.6 0.6	30.0 0.2	29.6 0.1	29.9 0.2	31.8 2.0	29.2 0.3	30.7 0.6
23	30.0 1.0	30.0 0.4	29.2 0.2	30.5 0.3	31.0 0.3	31.5 0.3	31.3 0.1	31.7 0.2	31.7 0.2	32.0 0.2	32.0 0.2	34.8 2.8	30.6 1.0
24	31.5 0.5	31.0 0.6	31.0 0.5	30.9 0.5	33.4 2.2	32.0 2.0	32.2 1.9	32.4 2.4	32.0 2.0	32.0 2.0	33.0 2.0	34.1 2.7	33.0 1.8
25	32.2 1.0	33.9 1.9	33.3 2.3	32.1 2.1	32.3 2.3	31.8 3.0	31.4 2.9	31.0 2.1	30.5 1.8	30.5 2.0	30.5 1.7	30.2 2.1	32.1 1.8
26	36.8 2.3	36.5 2.7	33.5 1.5	32.0 0.9	31.0 0.9	31.0 1.0	30.0 0.5	29.2 0.2	30.0 0.5	30.3 0.4	30.1 0.1	30.5 0.5	51.2 1.3
27	35.1 2.8	40.5 3.1	40.5 2.7	40.0 2.8	41.0 3.0	40.4 2.6	40.8 3.5	40.2 2.9	41.0 3.9	40.2 4.0	40.0 3.4	35.9 2.1	35.9 2.1
28	31.4 0.1	31.9 0.4	33.2 1.2	33.6 0.6	32.3 0.3	31.9 0.0	31.5 0.0	31.2 0.1	30.6 0.0	30.4 0.0	30.9 0.1	31.0 0.0	33.6 0.8
29	33.0 1.0	33.2 0.7	33.2 0.9	32.3 0.6	32.3 0.3	32.2 0.2	31.5 0.2	31.7 0.3	31.7 0.5	31.7 0.4	32.0 0.5	32.0 0.6	33.7 1.0
30	31.6 1.4	31.8 1.4	31.6 1.8	31.6 1.8	31.5 0.5	31.2 1.2	30.9 1.1	30.1 1.4	30.0 1.2	29.9 1.1	29.5 2.0	29.3 1.3	31.6 1.1
31	31.0 0.2	30.9 0.3	31.1 0.1	31.2 0.2	31.2 0.0	32.0 0.2	32.3 0.3	33.0 0.9	32.9 0.9	32.0 0.0	31.8 0.0	31.2 0.0	31.0 0.8
Means	26.3 0.94	28.6 0.94	28.3 1.13	28.1 0.99	27.8 0.98	27.4 0.92	27.2 0.90	26.9 0.90	26.8 0.98	26.6 0.91	26.7 0.92	26.6 0.99	27.0 0.97

	1	2	3	4	5	6	7	8	9	10	11	12
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	31.1 0.1	31.0 0.0	31.0 0.0	30.3 0.0	29.8 0.0	29.4 0.0	29.3 0.0	30.1 0.0	30.5 0.1	31.0 0.1	31.5 0.4	28.4 0.2
2	15.1 1.0	15.1 0.8	14.9 1.0	16.0 1.1	16.9 1.0	16.8 0.6	15.9 0.9	16.6 0.7	18.9 1.0	20.8 0.9	22.2 1.1	24.1 1.7
3	26.3 1.4	26.0 1.3	26.3 2.0	27.1 2.0	27.1 1.2	29.5 2.2	28.0 1.2	29.5 1.5	30.6 1.6	30.9 1.9	30.8 2.5	31.8 2.6
4	29.2 0.4	30.9 0.5	31.7 0.7	32.1 0.9	32.1 3.1	33.2 1.1	33.5 1.2	33.4 1.3	33.4 1.4	32.7 0.7	31.6 0.3	31.8 0.6
5	32.9 1.0	32.2 1.0	32.0 1.0	31.3 0.6	30.5 0.3	32.9 0.3	31.3 0.5	26.0 0.8	25.7 1.1	24.8 0.9	24.4 0.9	25.6 1.1
6	27.9 1.5	28.7 1.9	29.7 1.9	28.2 1.2	27.9 0.4	28.5 0.6	28.9 0.2	29.2 0.2	29.8 0.3	30.6 0.1	31.6 0.4	32.7 0.7
7	30.4 1.0	30.2 0.8	31.1 1.3	29.6 0.7	29.8 0.8	29.6 0.7	30.0 1.2	30.9 1.5	31.4 2.1	32.7 1.8	32.5 1.5	32.7 1.5
8	26.7 0.4	26.7 0.4	26.1 0.3	26.5 0.5	26.9 0.8	27.8 1.1	27.4 1.3	28.6 1.5	29.0 1.5	30.6 1.7	30.8 1.6	31.2 1.4
9	26.1 0.8	24.0 0.3	24.2 0.1	23.2 0.0	23.1 0.0	23.1 0.0	23.5 0.1	24.0 0.1	24.2 0.1	26.5 0.9	26.5 0.8	27.3 0.8
10	26.7 1.1	26.1 0.7	26.5 0.6	27.0 0.6	27.2 0.2	27.8 0.6	28.1 0.4	28.7 0.6	29.2 0.4	29.7 0.6	29.6 0.5	29.8 0.6
11	31.0 2.0	32.2 0.2	30.1 2.4	29.1 2.0	29.2 2.0	29.9 2.6	29.3 2.4	30.5 2.3	31.5 1.5	32.3 1.8	31.6 1.5	31.5 1.3
12	29.8 0.0	29.8 0.0	29.5 0.0	29.4 0.0	29.7 0.0	30.0 0.0	30.2 0.0	30.1 0.0	30.0 0.0	29.1 0.0	30.1 0.6	29.8 0.3
13	31.8 1.6	31.6 1.4	31.5 1.2	31.0 1.7	30.7 1.5	30.8 3.5	31.8 3.9	30.3 2.6	30.4 2.7	30.9 3.0	31.0 3.1	31.0 3.8
14	29.1 0.9	29.5 0.8	29.0 0.5	28.9 0.1	29.5 0.0	30.4 0.5	31.2 1.4	30.9 0.7	30.9 0.7	31.0 0.3	30.8 0.8	30.7 0.2
15	25.2 0.3	24.8 0.0	24.5 0.7	24.9 1.3	24.9 1.0	25.9 1.1	25.8 1.3	25.9 1.0	25.3 1.1	24.9 1.5	25.9 1.7	25.9 1.9
16	27.0 0.0	28.3 0.2	28.8 0.0	29.8 0.1	31.8 0.1	34.2 2.1	35.1 0.3	36.9 1.8	37.4 1.8	38.9 2.4	38.6 2.8	41.4 4.1
17	35.0 3.0	33.7 2.7	34.1 2.3	34.8 2.4	35.5 3.5	32.2 1.9	35.2 3.7	33.5 2.5	34.6 2.9	31.6 0.9	33.3 1.8	33.3 1.6
18	23.5 0.5	23.9 1.1	23.8 0.9	24.1 1.0	24.7 1.2	24.7 0.9	24.9 1.1	24.4 0.7	24.9 0.9	26.3 1.5	26.0 0.6	26.1 0.8
19	27.9 0.8	27.8 2.1	29.0 1.8	32.3 2.0	34.1 2.1	31.3 0.8	32.8 1.0	34.1 1.5	33.7 0.9	33.1 1.0	33.0 0.9	33.9 1.4
20	31.8 0.5	32.1 0.7	32.3 0.8	32.1 0.6	32.0 0.3	31.8 0.0	31.6 0.0	31.9 0.0	32.0 0.0	32.2 0.1	32.1 0.0	32.1 0.0
21	24.0 0.0	22.1 0.0	22.2 0.0	22.0 0.0	22.9 0.0	23.5 0.0	26.0 0.0	26.0 0.0	27.0 0.0	28.8 0.6	30.9 0.9	30.5 0.7
22	32.0 0.0	31.0 0.0	31.0 0.0	31.3 0.0	32.3 0.3	33.0 1.0	32.2 0.2	33.8 1.4	35.8 0.6	37.8 1.1	36.0 2.8	36.3 3.9
23	33.0 0.6	33.0 0.9	32.3 0.3	32.4 0.6	31.7 1.0	31.8 1.0	32.0 1.0	32.7 1.4	32.8 1.4	33.0 1.6	33.8 2.1	32.9 0.9
24	31.8 0.1	30.3 0.2	29.8 1.0	29.8 0.7	30.6 0.3	30.8 0.2	31.0 0.2	30.8 0.0	30.8 0.0	31.5 1.1	30.7 2.0	32.1 2.3
25	30.1 2.7	29.8 2.5	29.0 1.0	30.1 0.3	30.0 0.5	29.3 0.4	29.7 0.3	30.8 0.5	32.0 0.7	32.7 1.0	32.8 1.0	34.2 2.2
26	26.7 1.8	26.5 1.5	26.7 1.5	27.2 1.2	26.5 1.5	26.6 1.1	26.0 1.0	27.3 1.7	27.8 1.8	28.1 1.5	28.4 1.5	28.2 1.3
27	25.9 1.5	25.6 0.8	25.2 1.1	25.4 1.6	25.0 0.7	26.1 1.8	26.4 1.6	26.7 1.9	27.0 2.5	27.9 2.1	28.3 2.8	27.2 2.4
28	26.1 1.1	26.3 1.2	26.2 0.7	26.2 0.5	26.1 0.3	26.5 0.7	26.4 0.4	26.5 0.5	27.0 0.7	27.3 0.6	27.3 0.7	27.3 0.6
29	26.1 0.2	26.0 0.2	26.2 0.3	26.7 0.4	27.0 0.3	27.0 0.1	28.0 0.5	27.8 0.3	28.2 0.2	28.9 0.3	29.2 0.1	29.1 0.1
30	27.9 0.2	27.9 0.7	27.3 0.2	27.4 0.2	27.5 0.1	27.3 0.1	27.0 0.0	27.0 0.1	26.8 0.0	26.9 0.8	26.8 0.8	27.0 1.0
Means	28.2 0.88	28.1 0.83	28.1 0.85	28.2 0.81	28.4 0.82	28.7 0.90	29.0 0.91	29.2 0.97	29.6 1.00	30.1 1.09	30.3 1.28	30.5 1.40

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	28.9 0.3	27.3 0.1	25.1 0.1	23.7 0.7	22.7 0.6	22.7 0.8	21.8 0.8	20.8 0.8	19.5 0.6	18.1 0.8	18.0 0.7	16.1 0.3	26.2 0.3
2	26.7 1.5	27.0 0.7	27.4 2.1	27.3 1.5	27.3 1.6	26.9 1.8	26.9 1.8	26.5 1.9	26.1 1.5	26.1 1.4	26.0 1.5	26.5 1.8	22.2 1.2
3	32.4 2.4	32.4 2.4	31.3 1.9	31.4 1.8	29.0 1.1	28.2 1.1	28.9 0.9	28.0 1.1	27.3 0.5	29.8 0.9	29.3 0.3	29.6 0.4	29.2 1.5
4	32.0 0.4	32.0 0.0	35.8 2.6	35.7 3.4	32.8 1.5	31.3 0.1	30.9 0.0	33.8 1.8	36.9 2.1	37.0 2.0	35.0 2.1	33.3 1.3	33.0 1.2
5	26.2 1.3	27.0 1.7	26.9 1.6	27.6 1.6	28.0 2.0	26.8 1.9	27.0 2.0	26.6 1.9	26.1 1.2	26.2 1.2	26.0 1.2	26.1 1.1	27.9 1.2
6	38.9 2.4	32.7 0.5	32.7 0.5	32.3 0.3	31.6 0.0	31.3 0.0	33.9 0.9	33.0 0.5	31.6 0.0	31.1 0.6	31.0 0.8	30.9 0.9	31.1 0.7
7	33.3 1.3	33.1 1.3	32.0 1.7	33.2 2.5	33.8 3.0	33.9 3.7	32.3 2.4	30.8 1.2	29.3 0.9	29.0 0.6	27.0 0.0	26.8 0.3	31.0 1.4
8	32.0 2.1	31.3 1.6	31.2 2.1	29.8 1.7	29.4 1.4	28.1 1.0	27.3 0.6	27.4 1.0	27.6 1.0	26.8 0.8	26.0 0.8	26.9 1.0	28.4 1.1
9	27.1 0.8	29.3 0.5	27.7 0.9	27.2 1.0	26.7 0.7	26.5 0.5	25.3 0.1	25.7 0.4	25.8 0.7	26.2 1.1	26.0 0.9	26.0 1.0	25.6 0.5
10	29.8 0.4	30.3 0.5	29.3 0.1	29.9 0.7	29.8 0.3	31.1 1.0	31.8 1.1	30.9 1.0	31.1 1.4	32.2 2.2	31.0 1.2	31.7 0.0	29.4 0.8
11	31.9 1.7	32.6 1.7	32.2 1.8	31.1 1.3	30.0 1.0	28.3 0.3	28.3 0.5	29.3 0.3	29.5 0.1	29.6 0.0	30.4 0.1	30.3 0.2	30.5 1.3
12	30.0 0.8	29.9 0.0	30.2 0.0	31.7 0.2	32.0 0.2	32.0 0.1	32.1 0.3	34.2 2.2	33.2 1.4	33.2 2.6	32.2 2.0	32.8 2.1	30.9 0.6
13	31.2 3.9	30.9 3.0	30.9 3.1	31.2 2.9	30.7 2.8	30.6 2.7	30.1 2.4	30.0 2.5	30.0 2.2	30.7 2.5	30.5 2.4	29.8 2.6	30.8 2.6
14	30.9 0.0	30.6 0.0	31.1 0.0	31.6 0.2	31.9 0.4	30.9 0.0	29.8 0.3	30.2 0.8	30.1 0.2	28.4 0.4	27.6 0.4	26.0 0.4	30.0 0.4
15	25.0 1.2	24.8 1.7	25.1 1.8	26.1 1.9	25.2 2.1	24.7 2.0	24.8 2.1	25.1 2.1	25.5 2.2	26.4 1.8	26.3 1.8	27.6 1.5	25.4 1.4
16	36.9 1.8	33.9 0.6	38.2 1.8	38.2 2.0	36.8 1.8	37.2 3.0	37.2 3.2	36.3 2.9	33.0 1.3	35.1 3.0	33.0 1.0	33.5 2.3	34.9 1.6
17	32.3 1.3	32.1 2.0	32.0 2.2	31.4 2.2	31.1 2.3	30.2 2.0	30.0 2.2	29.3 1.3	28.4 2.2	26.7 1.0	24.7 0.0	24.0 0.7	31.6 2.0
18	26.2 1.4	27.7 1.5	27.7 1.9	26.8 1.6	27.1 1.4	26.9 1.5	27.3 1.5	28.2 1.9	28.6 2.0	28.3 1.6	28.0 1.3	27.8 1.8	26.2 1.3
19	32.3 0.3	32.1 0.1	32.1 0.4	32.1 0.6	31.7 0.6	32.0 0.7	31.8 0.6	31.5 0.5	31.9 0.6	32.1 0.7	32.0 0.7	32.1 0.5	31.9 0.9
20	32.0 0.0	32.3 0.1	32.3 0.2	36.0 2.0	35.8 1.3	36.1 2.7	35.4 2.9	32.4 1.6	34.8 3.0	27.5 0.4	26.6 0.0	25.3 0.0	32.1 0.7
21	30.0 0.4	30.8 0.8	33.4 1.8	30.3 0.2	31.0 0.1	29.7 0.0	31.0 0.3	31.5 0.3	32.2 0.3	32.3 0.3	32.6 0.6	33.1 1.0	28.5 0.4
22	33.1 1.1	32.1 0.1	31.2 0.3	31.0 0.0	32.6 0.8	32.1 0.1	33.6 1.6	34.2 1.2	33.9 1.1	33.9 1.1	33.0 0.7	33.0 0.7	33.2 0.9
23	32.9 1.5	32.7 1.6	32.7 0.7	32.0 1.0	30.9 0.6	31.1 0.5	31.1 0.4	30.6 0.3	29.5 0.0	30.0 0.0	29.7 0.0	31.0 0.0	31.9 0.8
24	31.8 2.4	31.7 2.7	31.3 3.3	32.0 3.3	31.2 1.5	31.0 2.7	30.3 3.0	31.1 3.3	30.3 3.3	29.7 2.8	29.6 2.1	29.5 3.8	30.7 1.8
25	35.7 3.4	33.0 1.0	34.2 1.5	31.7 0.7	30.6 1.0	30.2 0.4	29.1 0.1	29.1 0.1	28.6 1.1	27.9 1.1	27.1 1.1	27.1 1.1	30.6 1.1
26	28.2 1.4	28.0 1.2	28.0 1.3	27.5 1.5	27.6 1.6	27.7 2.0	27.5 1.4	27.2 1.4	26.9 2.0	26.6 2.0	26.6 1.7	26.6 1.9	27.3 1.6
27	27.9 2.9	28.0 2.6	27.7 2.1	28.2 2.1	27.9 1.9	27.4 1.8	26.8 1.6	26.5 1.7	26.7 1.9	26.1 1.6	26.2 1.2	26.1 1.0	26.8 1.8
28	27.5 0.5	28.0 0.8	27.6 0.6	27.1 0.6	27.0 0.8	26.8 0.6	26.8 0.7	26.8 0.7	28.1 2.9	26.8 0.7	26.6 0.5	25.9 0.1	26.8 0.7
29	30.3 0.3	30.2 0.4	29.7 0.6	29.7 0.5	29.3 0.3	29.3 0.3	28.9 0.3	28.7 0.5	28.8 0.5	28.7 0.4	28.6 0.5	28.2 0.2	28.4 0.4
30	27.0 1.2	27.2 1.1	26.7 0.6	27.2 1.2	27.2 1.2	27.0 1.4	26.4 1.0	26.4 1.0	26.8 0.8	27.0 1.0	27.0 1.0	27.0 1.0	27.1 0.7
Means	30.7 1.35	30.4 1.09	30.5 1.32	30.4 1.37	29.9 1.20	29.6 1.22	29.5 1.23	29.4 1.67	29.3 1.30	29.0 1.22	28.4 0.97	28.3 1.03	29.3 1.01

AIR TEMPERATURE AND DEPRESSION OF WET BULB.

DECEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	27.2 1.4	27.1 1.7	27.1 1.8	27.8 1.6	27.3 0.9	27.7 1.2	28.4 0.9	29.1 1.1	29.0 1.0	29.7 1.4	29.0 0.9	29.8 1.0
2	28.3 0.7	28.8 0.8	28.8 0.8	29.0 0.7	28.9 0.3	29.3 0.5	29.8 0.8	31.5 1.4	32.6 2.0	30.4 1.5	30.0 1.2	30.0 1.0
3	27.8 0.5	27.0 0.1	28.2 0.7	25.4 0.4	28.7 0.7	28.8 0.8	28.2 0.4	29.6 0.8	30.3 1.3	30.1 1.1	32.0 2.0	31.9 2.0
4	27.9 1.7	28.1 1.6	28.2 1.2	29.0 2.3	29.0 2.2	29.0 2.3	29.4 2.5	31.9 2.9	30.4 2.8	31.0 2.9	30.5 2.5	30.3 2.1
5	29.0 0.4	29.0 0.3	29.0 0.2	29.1 0.3	29.0 0.3	28.9 0.6	29.2 0.5	28.9 0.8	28.8 0.7	29.8 1.8	29.9 1.0	30.3 1.1
6	29.2 1.4	29.0 1.0	28.8 0.8	28.8 1.0	29.0 0.6	29.5 0.8	31.2 1.2	31.9 1.2	32.7 0.8	32.3 1.5	32.4 0.4	32.7 1.9
7	26.8 1.4	26.7 0.9	28.0 1.0	29.0 1.2	29.3 1.1	28.8 0.8	29.6 0.9	29.7 0.9	30.0 1.0	30.6 1.6	30.8 1.8	30.8 1.6
8	29.7 0.8	29.8 0.8	29.9 1.1	30.1 1.1	30.3 0.8	31.0 1.2	30.8 1.0	30.9 1.1	31.3 1.3	31.5 1.4	31.7 1.5	32.0 1.5
9	31.1 0.1	31.3 0.3	31.1 0.1	31.2 0.3	31.3 0.3	31.5 0.3	31.8 1.0	32.2 1.4	32.0 1.3	31.9 1.3	32.0 1.4	32.4 1.6
10	29.7 0.4	30.0 0.9	29.7 0.7	29.8 0.8	29.7 0.9	29.8 0.9	29.7 0.8	30.1 1.1	29.9 0.9	30.0 1.0	29.8 0.8	30.5 1.1
11	28.3 0.3	28.5 0.4	28.4 0.3	28.5 0.2	29.0 0.2	29.5 0.3	29.7 0.4	29.7 0.3	31.0 0.7	33.1 1.1	31.2 0.0	30.2 0.9
12	28.2 0.2	28.7 0.6	28.8 0.6	28.8 0.6	29.1 0.3	29.6 0.6	30.5 0.7	31.8 0.8	32.0 1.0	32.8 0.9	31.9 3.0	35.2 1.7
13	30.2 0.2	30.1 0.3	30.0 1.0	30.0 0.5	30.8 0.8	30.6 0.3	31.0 0.3	31.0 0.4	31.6 0.6	32.0 1.0	31.7 0.4	30.8 0.6
14	30.2 1.2	30.5 1.5	30.3 1.1	30.6 1.5	30.4 1.0	30.0 0.9	30.0 1.0	30.3 1.3	31.0 1.6	31.0 1.5	31.7 1.5	31.0 2.0
15	32.6 0.8	32.5 0.7	32.0 0.5	31.8 0.4	32.5 0.6	32.7 0.8	33.1 0.6	32.7 0.4	32.9 0.3	33.0 0.2	32.9 0.2	33.2 0.4
16	33.0 0.0	32.8 0.0	32.9 0.0	32.9 0.0	32.7 0.1	32.5 0.0	32.6 0.0	32.5 0.0	32.8 0.0	32.7 0.0	32.5 0.0	39.0 1.4
17	29.9 1.3	29.9 1.3	29.9 1.0	31.6 1.5	32.0 1.6	33.6 1.9	35.3 3.0	36.1 1.8	37.4 2.0	38.1 2.8	38.9 3.4	38.6 3.5
18	31.2 0.4	31.1 0.3	31.2 0.4	31.0 0.5	31.2 0.5	31.1 0.4	30.8 0.0	31.4 0.0	31.3 0.0	33.3 1.2	38.2 3.2	40.0 4.6
19	31.8 0.0	32.0 0.1	31.8 0.1	31.9 0.1	32.0 0.0	32.0 0.0	31.7 0.0	32.1 0.1	32.0 0.0	31.8 0.0	30.8 0.1	30.7 0.2
20	33.7 0.0	33.0 0.0	32.9 0.0	34.8 0.3	33.7 0.1	33.5 0.1	33.4 0.0	34.0 0.2	33.4 0.1	33.0 0.0	33.5 0.0	32.8 0.0
21	30.5 0.4	30.1 0.1	29.5 0.0	28.7 0.1	28.6 0.0	28.7 0.1	28.7 0.2	28.7 0.8	29.2 0.9	28.5 0.8	28.3 0.6	28.9 0.6
22	32.0 1.5	32.9 2.1	32.2 1.2	30.6 0.6	30.5 1.3	30.8 1.0	31.2 0.2	31.7 0.0	32.0 0.0	32.8 0.6	32.9 0.2	32.8 0.2
23	32.0 2.0	32.1 2.4	30.0 0.8	30.0 0.8	30.8 0.4	31.4 0.8	32.5 1.3	32.7 1.4	32.9 1.5	32.0 0.2	32.0 1.0	32.8 1.0
24	31.0 0.6	30.5 0.4	30.8 0.4	31.1 0.2	31.7 0.5	31.8 0.6	32.0 0.8	32.1 0.3	31.6 0.3	31.4 0.4	31.8 1.2	32.0 0.7
25	30.8 1.8	30.9 1.8	30.5 1.3	31.0 1.7	31.7 1.7	31.3 1.3	32.4 1.4	32.8 2.0	33.8 1.3	33.8 2.6	34.9 2.8	35.2 3.4
26	32.7 1.9	33.0 2.1	33.1 1.9	32.9 2.5	32.8 1.8	32.8 1.4	35.4 2.3	34.5 1.8	34.0 1.5	33.3 1.3	34.4 1.5	34.9 1.8
27	31.3 0.1	32.6 0.3	31.9 0.2	31.9 0.2	31.5 0.2	32.1 0.3	32.2 0.3	32.5 0.6	32.6 0.6	32.9 0.5	32.4 0.2	32.9 0.1
28	29.9 0.7	30.0 0.6	30.8 0.6	31.1 0.6	31.4 0.6	31.8 0.9	32.2 1.0	33.0 1.2	35.0 2.2	33.1 1.1	33.9 1.9	32.9 0.9
29	32.8 0.8	32.8 0.8	32.9 0.9	32.8 0.8	32.5 0.6	32.7 0.5	33.1 0.6	33.2 0.7	32.0 0.0	32.0 0.0	32.2 0.2	32.7 0.5
30	32.0 0.2	31.8 0.0	31.8 0.0	31.4 0.0	31.9 0.2	31.4 2.4	34.8 2.1	34.2 1.5	34.6 1.8	34.8 2.6	36.0 3.0	37.1 3.5
31	31.2 0.2	31.1 0.2	31.3 0.1	31.9 0.0	31.9 0.0	32.0 0.0	32.2 0.2	32.3 0.1	32.7 0.1	32.9 0.1	33.1 0.0	33.3 0.1
Means	30.3 0.75	30.4 0.79	30.3 0.67	30.4 0.74	30.6 0.66	30.9 0.77	31.4 0.85	31.7 0.92	32.0 0.95	32.1 1.11	32.4 1.22	32.9 1.39

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	29.9 0.9	29.7 0.8	29.6 0.8	29.4 0.6	29.3 0.6	29.0 0.7	28.9 0.9	28.5 0.7	28.4 0.5	28.3 0.5	28.3 0.5	28.6 0.6	28.6 1.0
2	31.1 1.2	31.4 1.4	30.6 1.6	31.0 1.1	31.4 1.4	30.2 1.2	29.8 1.2	29.8 0.8	28.7 1.0	28.2 0.7	28.3 0.5	28.1 0.1	29.8 1.0
3	31.9 1.0	32.1 1.2	31.2 0.9	31.0 1.0	31.6 1.6	30.9 1.5	30.4 1.2	30.0 1.3	29.1 1.9	28.8 1.8	27.8 1.8	28.0 1.8	29.6 1.1
4	30.4 1.8	30.1 2.0	30.1 1.9	29.9 1.3	29.4 1.0	29.1 1.1	29.4 0.4	30.0 0.4	29.3 0.1	29.0 0.0	29.0 0.2	28.9 0.2	29.6 1.6
5	30.4 0.6	30.6 0.9	30.6 1.0	30.1 1.2	30.3 1.4	30.2 1.9	30.0 1.3	30.0 1.0	29.9 0.3	29.9 1.9	29.5 1.0	29.4 1.3	29.7 0.9
6	32.5 0.7	32.3 1.6	32.7 2.3	31.9 2.1	32.8 2.3	31.1 1.5	30.6 1.6	30.0 1.5	29.2 1.2	29.0 1.8	27.3 1.9	26.2 1.1	30.5 1.3
7	31.8 2.0	31.1 1.4	30.8 1.6	30.0 0.9	30.3 1.3	30.6 1.5	30.4 1.6	30.2 1.6	30.2 1.2	30.0 1.0	29.2 0.7	2.7 1.0	29.8 1.3
8	32.5 1.5	32.2 1.5	32.4 1.6	32.0 1.4	31.9 1.3	31.4 0.9	31.2 0.7	31.2 0.8	31.1 0.6	31.0 0.3	31.0 0.0	31.1 0.1	31.2 1.0
9	31.9 1.8	31.6 1.8	31.0 1.6	30.2 1.2	30.0 1.0	29.7 1.1	29.3 1.0	29.2 0.2	29.1 0.7	29.6 0.6	29.3 0.3	29.9 0.7	30.9 1.0
10	30.6 1.1	30.5 1.0	30.1 1.0	30.3 1.0	30.2 1.0	30.2 0.9	30.0 1.0	29.6 0.8	29.4 0.7	29.1 0.4	29.0 0.7	28.8 0.7	29.9 0.9
11	30.0 0.7	30.4 1.0	30.3 0.8	30.0 0.7	29.9 0.6	29.1 0.1	28.8 0.1	28.7 0.2	28.3 0.2	28.2 0.2	28.0 0.0	28.1 0.1	29.5 0.5
12	33.8 1.6	32.9 1.2	33.1 1.1	33.1 1.1	33.0 1.0	33.0 1.0	31.8 0.2	32.0 1.0	31.8 1.2	31.1 0.9	30.7 0.6	30.8 0.8	31.6 1.0
13	30.0 0.0	29.8 0.0	29.7 0.0	30.1 0.2	30.2 0.4	30.4 0.6	30.5 0.7	30.3 0.7	30.4 1.0	30.8 1.7	30.8 1.4	30.2 0.4	30.5 0.5
14	35.2 1.6	36.0 2.0	35.3 3.0	35.8 1.4	35.7 1.3	32.1 0.3	33.0 0.7	33.5 0.9	36.4 1.8	32.7 0.9	34.0 2.0	33.0 1.2	32.6 1.4
15	33.1 0.4	33.5 0.5	33.1 0.3	33.0 0.3	32.9 0.3	32.9 0.1	32.6 0.0	33.3 0.0	34.4 0.2	32.7 0.0	32.7 0.0	33.1 0.0	32.9 0.3
16	35.0 0.8	33.0 0.4	34.2 1.9	31.8 0.1	31.1 0.1	30.9 0.0	31.5 0.6	31.8 0.6	30.5 1.5	30.1 1.4	30.0 1.2	30.0 1.3	32.4 0.5
17	40.0 4.0	40.6 5.0	39.8 5.6	39.3 5.1	37.6 4.8	38.8 5.9	32.6 1.7	33.0 2.1	31.0 1.1	30.6 0.8	31.4 0.5	31.9 0.8	34.9 2.6
18	40.0 4.5	40.8 4.6	31.8 1.7	31.1 1.3	33.0 0.8	32.8 0.6	32.5 0.5	32.4 0.5	32.2 0.4	31.6 0.0	32.1 0.6	31.5 0.1	33.3 1.0
19	31.1 0.3	31.4 0.4	31.7 0.3	32.1 0.3	31.9 0.1	33.2 0.3	33.2 0.1	33.5 0.1	33.0 0.0	33.0 0.0	33.0 0.0	33.2 0.1	32.1 0.1
20	32.9 0.1	32.3 0.0	31.0 0.4	31.8 0.0	31.9 0.0	33.0 1.0	32.3 0.3	32.0 0.0	31.5 0.0	31.0 0.0	31.0 0.0	30.9 0.0	32.8 0.1
21	29.9 0.8	30.3 0.5	30.8 0.9	31.4 1.9	32.0 1.5	32.5 1.5	31.4 0.4	32.5 0.4	32.9 1.8	32.9 1.3	33.2 1.3	33.0 1.2	30.5 0.8
22	33.0 0.2	33.1 0.3	32.9 0.1	32.6 0.4	32.3 0.3	32.3 0.5	32.6 1.2	31.8 0.6	31.8 1.2	31.2 0.4	32.0 0.7	32.1 0.1	32.1 0.6
23	32.9 1.1	32.2 0.9	32.7 1.0	32.2 0.6	32.1 0.7	32.0 1.0	32.7 1.0	32.4 0.7	31.6 0.0	31.9 0.0	31.8 0.0	31.1 0.1	31.9 0.8
24	31.7 0.6	31.7 0.6	33.0 2.0	33.0 2.0	32.8 2.0	31.8 1.3	32.1 1.4	31.4 0.8	29.9 1.2	30.8 2.1	30.7 2.0	30.8 2.6	31.6 1.1
25	34.2 2.5	32.2 0.9	33.0 2.2	32.7 2.0	33.1 1.8	33.1 1.4	32.8 1.1	33.0 1.4	32.8 2.2	32.5 2.5	32.2 1.4	32.2 2.0	32.6 1.8
26	32.9 1.2	34.5 1.5	33.2 1.2	33.8 1.7	32.4 0.7	32.3 0.2	32.0 0.7	31.6 0.6	31.6 0.0	31.3 0.0	31.3 0.1	31.4 0.2	33.0 1.2
27	33.0 0.3	33.3 0.2	32.8 0.1	32.9 0.1	32.5 0.2	33.4 0.3	33.2 0.3	32.6 0.3	32.1 0.3	31.9 0.0	32.0 0.2	31.6 0.8	32.4 0.3
28	33.1 1.0	33.2 0.9	33.1 0.9	32.7 0.7	32.4 0.6	31.8 0.6	31.8 0.7	32.0 0.8	32.1 1.0	32.2 1.0	32.4 0.9	32.3 0.4	32.3 1.0
29	32.2 0.2	32.9 0.9	32.6 0.8	32.7 1.0	33.6 1.7	32.2 0.2	31.9 0.5	31.2 0.3	31.1 0.0	31.3 0.4	31.9 0.6	31.9 0.3	32.4 0.6
30	38.1 3.8	38.7 4.7	36.0 2.2	35.5 2.4	35.2 2.3	33.8 1.6	33.5 1.3	32.3 1.3	31.9 0.9	31.7 0.7	31.6 0.6	31.2 0.3	33.9 1.6
31	35.0 0.2	34.7 0.3	34.0 0.0	33.5 0.2	33.1 0.1	33.0 0.2	32.9 0.1	33.2 0.1	34.6 0.1	33.7 0.2	34.0 0.1	34.3 0.1	33.0 0.1
Means	32.9 1.24	32.8 1.30	32.5 1.32	32.2 1.15	32.1 1.10	31.8 1.00	31.5 0.78	31.4 0.73	31.2 0.79	30.8 0.76	30.9 0.70	30.7 0.66	31.5 0.94

AIR TEMPERATURE AND DEPRESSION OF WET BULB.

JANUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	32.7 0.7	37.8 2.1	38.2 2.7	38.0 2.7	39.3 2.9	38.3 2.6	36.1 2.1	32.9 0.9	32.4 1.4	31.8 1.2	31.7 1.4	31.2 1.2
2	30.3 1.3	30.0 1.5	29.9 1.7	30.2 2.9	30.2 2.1	30.0 2.0	30.3 2.3	30.2 1.9	30.5 1.7	31.8 4.0	31.6 3.9	32.0 3.3
3	29.9 1.9	29.5 1.7	29.8 1.8	29.9 1.9	29.4 1.6	29.9 1.4	30.0 1.9	30.0 1.4	30.2 1.5	30.3 1.2	30.1 1.5	30.3 1.3
4	28.1 1.1	28.3 1.9	28.5 1.6	28.4 2.0	28.1 2.1	28.5 1.9	29.4 1.8	29.8 2.1	30.1 1.9	29.7 2.5	30.0 2.0	31.1 2.6
5	25.4 1.3	27.8 1.9	28.2 2.1	28.5 1.8	29.3 2.1	29.7 1.9	29.9 1.9	30.3 1.8	31.0 1.5	31.1 1.5	31.6 1.9	31.2 1.2
6	31.1 2.7	31.0 2.3	30.1 1.1	30.1 2.6	30.3 2.8	30.5 2.1	30.7 1.9	30.0 1.5	30.0 2.0	30.0 2.2	30.6 2.2	29.6 3.4
7	28.9 2.7	28.7 2.7	28.9 2.8	29.1 2.6	29.4 2.7	29.4 2.5	30.0 2.7	30.4 2.5	30.1 2.2	30.9 1.4	31.7 1.9	32.9 2.4
8	32.0 0.0	35.3 0.2	34.2 0.2	34.0 0.5	33.7 0.5	32.8 0.2	32.5 0.2	32.3 0.1	32.7 0.3	33.0 0.2	33.1 0.4	34.4 0.8
9	34.0 0.1	39.1 1.7	38.3 1.8	39.0 2.0	39.0 2.5	36.0 1.6	39.0 2.8	41.2 4.0	42.0 4.5	41.8 4.3	42.8 4.5	43.6 5.4
10	34.3 0.2	36.8 0.8	33.8 0.8	32.9 0.1	32.1 0.0	32.2 0.0	32.0 0.0	32.7 0.1	32.3 0.0	32.7 0.0	33.6 0.0	34.0 0.1
11	33.1 0.2	36.0 1.1	37.9 2.0	37.8 2.1	36.8 1.8	36.9 1.9	37.3 1.9	37.2 2.1	36.8 1.7	38.4 2.1	38.1 2.0	37.8 0.8
12	35.0 2.5	34.9 2.7	35.1 3.1	34.0 2.5	33.9 2.8	34.0 2.7	34.0 2.3	33.5 1.7	34.3 2.4	33.8 1.6	33.5 1.4	33.1 1.5
13	32.1 1.1	32.0 0.9	32.3 0.6	30.7 0.0	31.5 0.6	32.0 0.4	32.8 0.9	33.2 0.2	33.0 0.5	32.8 0.2	33.9 0.8	32.3 0.4
14	30.6 0.5	30.3 0.3	30.3 0.5	30.5 0.6	30.3 0.2	30.7 0.4	31.0 1.0	31.0 2.0	31.0 2.0	31.1 2.0	31.1 2.0	31.0 1.2
15	30.2 2.3	30.0 2.4	30.0 2.4	30.0 2.5	30.0 2.1	29.7 1.9	29.5 1.9	29.5 2.2	29.5 2.6	29.8 2.7	30.5 2.8	31.0 3.0
16	30.3 1.9	30.2 2.2	30.3 2.3	30.5 1.9	30.8 2.4	30.9 2.5	31.3 2.4	32.3 2.3	32.3 2.5	32.8 2.8	32.7 3.1	32.7 2.9
17	31.1 2.1	30.5 1.9	30.5 1.7	31.9 3.0	32.1 2.7	32.5 2.9	32.3 1.1	33.0 1.4	33.6 2.8	33.8 2.4	33.8 1.7	34.5 1.8
18	33.0 0.2	33.1 0.1	32.9 0.1	33.1 0.0	34.3 0.2	34.4 0.1	34.9 0.4	36.8 0.5	38.7 1.1	38.9 1.2	39.0 1.3	39.8 1.6
19	33.6 0.4	33.0 0.0	34.0 0.5	33.6 0.4	33.2 0.2	33.5 0.3	33.0 0.2	33.0 0.2	33.0 0.1	33.2 0.1	34.3 0.2	35.0 0.6
20	32.9 0.5	33.0 0.3	33.1 0.1	33.4 0.4	33.1 0.3	33.3 0.3	33.6 0.3	33.8 0.1	33.7 0.0	34.0 0.0	33.9 0.0	34.5 0.2
21	33.2 0.0	33.3 0.1	34.0 0.0	35.0 0.3	35.2 0.2	34.3 0.1	34.8 0.1	34.0 0.0	34.9 0.1	35.3 0.1	35.2 0.2	35.0 0.2
22	31.5 0.0	31.3 0.0	32.0 0.2	32.1 0.3	32.3 0.2	32.6 0.3	32.7 0.4	32.7 0.3	33.0 0.4	32.8 0.4	32.8 0.4	32.8 0.4
23	31.5 0.0	31.0 0.0	31.2 0.0	31.0 0.0	31.2 0.2	31.5 0.2	31.8 0.2	31.8 0.2	32.5 0.7	32.4 0.4	32.6 0.6	32.5 0.7
24	31.1 1.7	30.6 1.4	30.8 1.8	31.0 2.0	30.8 1.9	30.3 0.8	31.1 1.3	31.3 1.9	31.7 1.7	32.2 2.2	32.9 1.9	33.4 3.2
25	32.5 0.7	32.5 0.6	32.7 0.7	33.1 1.1	32.9 0.6	32.7 0.5	33.0 0.8	32.7 0.7	33.0 0.2	34.2 3.9	34.1 3.5	33.8 3.0
26	29.8 0.5	30.6 1.8	30.2 1.4	30.5 1.7	30.1 1.2	30.3 1.4	30.3 0.8	30.8 0.8	30.1 0.2	30.8 1.0	30.8 1.3	30.5 0.8
27	31.1 2.2	31.3 2.3	31.9 1.9	32.3 2.3	32.0 2.4	30.5 1.2	30.1 0.7	31.2 0.6	31.4 0.0	31.8 0.1	32.8 0.0	32.0 0.0
28	31.6 1.5	31.2 1.9	31.3 2.0	30.3 0.9	30.4 0.9	30.0 0.4	31.0 1.2	30.9 0.9	30.7 1.6	30.1 0.9	30.1 1.1	30.2 1.2
29	30.9 1.1	30.6 0.8	30.3 0.5	30.4 0.8	30.6 1.7	30.6 1.6	30.7 1.6	30.7 1.1	30.4 1.2	31.1 1.6	31.8 2.1	32.1 1.5
30	30.2 1.3	30.3 1.3	30.4 1.4	30.9 1.7	31.1 1.6	31.6 1.6	31.8 1.6	32.0 1.4	32.1 0.3	32.7 1.3	32.5 1.0	32.9 0.9
31	31.9 1.9	32.1 2.3	32.2 3.5	32.3 3.5	32.1 3.3	31.9 3.3	31.7 3.3	31.8 2.9	31.8 3.0	31.8 3.1	32.0 2.6	31.4 2.2
Means	31.4 1.12	32.0 1.33	32.0 1.40	32.1 1.52	32.1 1.51	32.0 1.32	32.1 1.35	32.4 1.28	32.5 1.36	32.8 1.57	33.1 1.60	33.2 1.61

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	31.8 1.8	32.0 2.1	32.5 1.0	32.1 2.1	31.9 2.6	31.8 2.8	31.2 2.2	31.1 1.8	30.8 1.2	31.0 1.2	30.8 1.5	30.5 1.5	33.2 1.8
2	31.6 2.4	30.8 1.5	30.8 1.9	30.8 2.5	30.8 2.8	30.3 2.4	30.1 2.4	30.0 1.8	29.8 2.2	29.7 2.3	30.0 1.9	29.4 2.0	30.5 2.3
3	30.3 1.7	29.3 1.7	30.0 1.0	30.0 1.4	30.2 1.2	29.2 1.4	28.8 1.3	28.9 0.9	29.0 1.8	28.8 1.8	29.0 1.4	28.8 1.8	29.6 1.4
4	31.7 2.7	30.9 2.6	32.8 3.1	33.8 3.8	31.7 3.6	30.8 2.8	30.2 2.9	29.5 2.6	27.8 1.8	25.6 1.6	25.9 1.2	25.5 1.2	29.4 2.2
5	31.0 1.0	32.0 1.0	32.1 1.1	31.8 1.0	31.9 0.9	31.3 0.7	31.6 1.0	31.0 0.7	30.8 0.4	30.9 0.8	31.4 1.8	31.3 1.6	30.5 1.4
6	30.2 3.4	30.3 3.0	30.2 2.6	29.0 1.7	29.3 2.1	29.7 2.4	29.2 3.4	29.4 2.2	29.0 2.6	29.0 2.9	28.8 2.8	28.8 2.7	29.9 2.5
7	33.3 2.7	33.0 2.6	33.3 1.6	32.5 2.5	33.0 2.4	32.4 2.6	32.5 2.5	32.1 1.5	31.0 0.1	31.2 0.1	32.0 0.0	32.0 0.0	31.2 2.0
8	35.0 1.0	35.2 1.0	33.1 0.5	32.3 0.3	32.4 0.3	32.5 0.3	33.1 0.3	33.8 0.2	34.2 0.2	34.3 0.2	34.0 0.0	33.5 0.1	33.5 0.4
9	39.4 3.3	36.3 1.5	36.0 1.7	44.4 4.9	35.0 0.9	34.6 0.6	35.1 0.6	34.2 0.2	34.0 0.2	33.2 0.1	33.0 0.0	33.4 0.2	37.7 2.1
10	34.6 0.7	35.9 1.4	36.7 1.8	35.1 1.1	35.1 0.9	35.9 1.4	35.8 1.3	35.5 2.0	34.0 1.0	33.8 0.8	33.0 0.4	33.0 0.2	34.1 0.7
11	37.9 1.9	37.1 1.9	37.1 1.6	38.5 2.4	36.6 1.4	36.9 1.5	36.6 2.1	36.5 2.5	36.9 2.9	35.9 2.1	35.1 2.1	34.9 2.1	36.8 1.8
12	33.0 1.9	33.0 1.5	32.8 1.8	32.9 1.8	32.8 2.0	32.7 2.1	32.8 1.9	32.0 0.6	33.1 1.3	33.0 1.5	33.4 1.8	33.6 2.4	33.5 2.0
13	32.4 0.5	32.3 0.4	32.7 0.9	32.8 1.0	32.2 0.3	32.3 0.4	32.6 0.7	32.2 0.2	32.0 0.2	32.0 0.2	31.0 0.4	30.6 0.4	32.2 0.5
14	30.5 1.5	30.2 1.4	30.3 1.2	30.1 0.9	30.5 1.5	30.7 1.7	30.5 1.7	30.5 1.9	30.7 1.5	30.4 2.2	30.2 2.3	30.1 2.2	30.6 1.4
15	31.0 3.0	30.7 2.8	30.1 2.1	30.1 1.9	29.9 1.6	30.0 1.6	29.8 1.6	29.8 1.5	29.8 1.6	29.8 1.7	30.1 2.0	30.1 1.9	29.6 1.7
16	32.4 2.9	31.8 2.0	31.7 1.9	32.2 2.8	32.1 2.4	32.1 2.3	31.9 2.4	31.7 2.4	31.3 2.2	31.1 2.1	31.0 2.1	31.0 2.0	31.6 2.4
17	34.2 2.0	33.8 1.8	33.7 2.9	33.5 2.9	33.2 2.7	33.0 2.1	33.0 1.9	31.5 0.1	31.9 0.4	32.0 0.2	32.5 0.5	32.8 0.7	32.7 1.8
18	32.9 1.6	39.7 1.7	40.3 2.1	39.0 1.2	38.2 1.0	38.0 0.9	36.8 0.8	34.3 0.3	33.4 0.2	33.8 0.5	33.3 0.2	33.3 0.2	36.2 0.8
19	35.0 0.9	35.0 0.8	33.8 0.5	34.2 0.7	33.0 0.3	32.8 0.3	32.7 0.0	32.7 0.0	32.0 0.0	32.4 0.1	32.7 0.0	32.5 0.4	33.4 0.3
20	34.7 0.4	35.1 0.3	34.1 0.1	34.1 0.1	34.1 0.0	33.1 0.0	33.4 0.0	32.8 0.0	32.6 0.0	32.5 0.0	32.7 0.2	32.5 0.1	33.5 0.2
21	34.8 0.2	35.3 0.3	34.8 0.1	34.9 0.3	34.6 0.3	33.7 0.2	33.8 0.2	33.1 0.1	32.6 0.1	32.4 0.1	32.2 0.0	32.0 0.0	34.1 0.1
22	32.9 0.4	33.0 0.3	32.9 0.3	32.7 0.2	32.4 0.4	32.4 0.1	32.4 0.1	32.6 0.3	32.4 0.1	32.5 0.3	32.5 0.4	32.1 0.1	32.5 0.3
23	33.0 1.7	32.7 1.4	32.6 1.8	32.7 1.4	31.9 1.0	32.0 1.3	31.6 0.9	31.7 1.1	31.9 1.6	31.3 1.2	31.0 0.7	31.3 1.5	31.9 0.8
24	33.3 2.2	33.7 2.6	34.0 2.5	33.5 2.6	33.2 2.2	33.1 2.1	33.0 2.4	33.0 2.6	34.0 3.0	34.4 1.7	34.2 2.8	33.0 1.2	32.5 2.1
25	34.0 2.8	34.0 3.2	34.0 2.8	33.2 2.9	32.5 2.5	32.0 2.7	31.8 2.7	31.5 2.6	31.0 2.4	30.8 2.1	30.2 1.8	30.2 1.6	32.6 2.0
26	30.8 1.0	31.1 1.1	30.8 0.8	30.7 0.7	30.8 1.0	31.0 1.2	31.0 1.0	30.8 0.8	31.1 1.0	31.2 1.0	30.3 1.1	30.8 1.9	30.6 1.1
27	31.9 0.0	32.0 0.0	32.0 0.0	31.8 0.6	32.2 0.6	32.3 0.7	32.1 0.5	32.1 0.6	31.0 1.0	31.5 1.4	31.8 1.6	30.8 0.8	31.7 0.9
28	30.6 1.3	31.0 1.3	31.0 1.3	31.2 1.2	31.7 1.0	31.6 1.0	31.8 1.5	31.9 1.7	31.1 1.0	31.7 1.6	30.6 0.7	30.7 0.8	30.9 1.3
29	32.2 1.1	31.8 1.8	31.9 1.9	31.7 1.7	31.7 1.7	31.6 1.6	31.6 1.6	31.2 1.8	31.0 1.9	30.6 1.8	30.7 1.9	30.4 1.5	31.1 1.5
30	33.1 1.1	32.9 1.2	33.0 1.1	32.5 1.5	32.2 1.5	32.3 1.6	32.2 2.2	32.0 2.0	31.8 2.6	31.4 1.9	31.8 1.8	31.6 1.7	31.9 1.5
31	31.5 2.1	31.2 2.1	31.0 2.0	31.1 1.9	31.0 2.0	30.9 1.9	30.6 1.8	30.3 1.9	27.2 1.2	27.3 1.3	30.3 2.3	31.0 2.0	31.1 2.4
Means	33.2 1.65	33.0 1.54	33.0 1.48	33.1 1.68	32.5 1.45	32.4 1.44	32.2 1.48	31.9 1.25	31.6 1.22	31.4 1.19	31.5 1.22	31.3 1.19	32.3 1.41

AIR TEMPERATURE AND DEPRESSION OF WET BULB.

FEBRUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	31.1 2.1	31.2 2.0	30.0 0.9	30.0 0.1	30.0 0.0	30.4 0.0	30.7 0.0	30.7 0.0	30.9 0.0	31.7 0.0	32.3 0.4	33.3 0.3
2	32.3 1.0	32.6 1.0	32.2 0.2	32.2 0.5	31.9 0.0	32.0 0.3	32.3 0.3	32.3 0.3	30.3 0.2	33.2 0.4	33.8 0.9	34.0 1.3
3	30.0 0.6	29.8 0.3	29.8 0.3	30.1 0.2	30.7 0.5	31.9 0.7	32.3 0.8	31.9 0.4	32.1 0.3	32.7 0.7	32.9 0.7	32.4 0.1
4	33.8 0.1	33.4 0.0	34.1 0.5	33.2 0.4	33.0 0.5	34.2 0.7	34.3 0.7	35.8 1.1	36.2 1.7	35.3 1.4	36.1 1.9	36.3 2.1
5	33.5 0.5	33.0 0.4	33.0 0.3	35.0 0.8	37.5 1.8	36.6 1.6	36.2 1.8	36.4 2.6	36.8 3.4	36.8 2.6	38.5 4.3	37.4 3.4
6	33.0 0.0	33.1 0.1	33.0 0.1	32.8 0.1	33.2 0.2	33.6 0.3	35.3 0.6	37.3 2.3	36.7 2.0	33.7 0.4	34.0 0.2	34.0 0.2
7	35.1 3.0	35.5 3.9	35.1 3.3	35.1 3.6	35.1 3.3	35.0 3.1	32.7 1.4	33.6 1.3	32.8 0.7	33.4 0.4	32.1 0.0	32.0 0.0
8	33.1 1.1	35.0 3.7	34.8 3.2	32.6 1.4	32.0 1.2	33.4 1.9	33.0 1.6	33.5 1.5	34.0 2.2	33.6 0.5	34.5 0.5	35.1 2.0
9	34.0 0.1	34.1 0.2	35.0 0.9	35.0 1.0	36.0 1.1	34.9 0.9	34.4 0.6	34.8 0.8	34.7 0.7	37.4 2.0	36.3 0.3	35.3 1.3
10	31.7 2.2	30.9 2.4	30.9 2.0	30.6 2.3	31.3 2.1	31.5 2.5	32.3 2.2	33.7 2.2	33.8 2.3	33.2 2.3	33.7 1.3	33.8 0.7
11	35.7 0.8	35.9 1.0	35.3 1.0	36.7 1.4	36.8 0.9	37.0 1.0	37.8 1.3	35.1 0.8	35.0 0.7	34.3 0.3	35.2 0.4	35.8 0.7
12	34.8 0.6	39.9 1.9	40.1 3.4	40.6 4.1	40.0 3.0	37.5 2.5	36.6 1.9	38.0 3.0	37.2 2.7	37.0 2.8	36.5 2.5	37.1 3.0
13	32.3 1.9	33.4 2.4	33.4 1.3	33.4 2.0	33.8 2.4	34.0 1.9	34.0 2.0	33.8 2.7	33.5 1.7	33.7 1.7	32.7 1.4	31.1 2.1
14	31.5 0.5	31.4 0.4	31.8 1.6	31.2 1.2	31.6 1.3	31.8 0.8	32.5 1.7	32.7 1.6	32.3 0.9	32.7 1.0	32.8 1.2	32.8 1.1
15	30.4 2.0	31.0 1.9	30.9 2.0	30.8 2.2	30.9 1.5	30.3 1.4	29.9 2.7	30.0 2.2	29.8 1.7	29.7 1.9	29.6 1.7	29.8 2.3
16	29.3 1.4	29.2 1.4	29.8 1.5	30.2 2.2	30.5 2.0	30.5 2.1	30.7 1.9	32.0 1.4	32.0 0.7	32.2 0.6	33.1 0.9	33.1 0.3
17	32.8 1.1	32.4 0.7	32.6 1.1	32.9 1.1	32.9 1.2	32.6 1.3	32.6 1.1	32.9 0.9	34.8 2.6	37.6 2.4	39.0 2.5	40.0 3.2
18	40.7 1.4	35.6 0.5	36.0 0.3	33.8 0.5	33.6 0.6	34.2 0.5	34.0 0.2	34.3 0.3	34.7 0.5	34.9 0.5	34.8 0.3	34.6 0.3
19	32.8 2.4	32.9 2.6	33.7 2.9	33.2 2.3	33.2 2.6	33.3 2.5	34.0 3.0	34.4 3.2	33.6 1.8	35.3 2.7	35.4 2.7	35.0 1.6
20	33.6 0.6	34.0 1.1	33.9 1.0	33.2 0.9	33.3 1.8	32.3 0.7	31.4 0.3	32.1 1.5	32.0 1.0	31.1 0.3	29.8 0.2	29.2 0.1
21	30.0 0.2	30.4 0.4	30.8 0.2	30.5 0.2	30.3 0.3	30.8 0.2	30.3 0.1	30.0 0.1	29.2 0.2	30.0 0.4	30.7 1.2	30.0 0.2
Means	32.9 1.12	33.1 1.35	33.2 1.33	33.0 1.36	33.2 1.44	33.2 1.28	33.2 1.25	33.6 1.44	33.4 1.33	33.8 1.20	34.0 1.21	33.9 1.25

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.	Dry. Dep. of Wet.
1	33.5 0.2	34.3 0.3	34.0 0.1	33.7 0.7	33.1 0.8	33.1 0.9	32.8 0.8	33.0 1.0	32.8 0.9	32.4 0.6	32.3 0.5	32.4 1.2	32.1 0.6
2	34.2 1.7	35.6 2.4	35.2 2.3	33.8 1.6	32.9 1.8	32.7 1.7	32.6 1.7	32.2 1.5	31.2 1.4	31.3 1.2	31.1 0.9	30.8 0.8	32.6 1.0
3	32.6 0.2	32.8 0.3	32.2 0.0	32.5 0.1	32.8 0.2	33.5 0.2	33.8 0.1	34.8 0.6	35.0 0.3	34.9 0.2	35.1 0.2	34.0 0.0	32.5 0.3
4	36.1 2.1	36.7 2.1	36.1 2.1	35.1 1.5	34.7 1.2	34.8 1.3	35.0 1.4	35.8 1.8	35.9 3.1	36.1 3.1	36.1 2.6	36.5 2.7	35.2 1.5
5	38.8 3.8	39.3 4.3	38.7 3.7	38.0 3.2	37.5 2.6	36.0 1.7	34.3 1.0	35.2 1.2	34.4 0.6	33.8 0.7	33.6 0.4	33.2 0.1	36.0 2.0
6	35.0 0.7	37.0 1.5	37.4 2.4	36.0 2.7	35.3 2.4	35.3 2.8	35.6 3.0	36.4 3.2	36.1 2.2	36.0 2.7	35.6 3.2	35.4 3.3	35.0 1.5
7	32.4 0.3	33.5 0.9	34.0 1.0	34.5 1.4	33.9 2.2	34.5 3.2	35.1 3.6	33.7 1.7	33.2 0.9	33.0 1.0	32.1 0.0	32.5 0.7	33.8 1.7
8	34.0 1.3	35.7 2.4	35.9 2.7	33.8 0.8	33.2 0.6	33.0 0.8	32.8 0.8	32.4 0.4	33.0 0.5	32.9 0.5	33.1 0.1	34.1 0.1	33.7 1.3
9	35.8 2.3	36.0 2.6	36.0 2.4	36.0 2.4	36.0 2.7	35.6 2.6	35.3 2.0	35.2 1.9	35.1 1.5	34.9 1.8	34.0 1.0	31.9 0.9	35.2 1.5
10	33.4 0.4	32.7 0.2	33.0 0.5	33.5 0.5	33.6 0.5	33.2 0.2	33.7 0.1	35.7 0.7	36.0 0.9	35.4 0.5	34.9 0.6	35.8 0.9	33.3 1.3
11	35.8 0.3	35.6 0.2	45.9 2.2	46.5 3.1	47.0 3.0	37.5 0.8	36.4 0.4	36.5 0.5	36.9 0.7	36.8 0.7	35.8 0.5	35.5 0.5	37.4 1.0
12	37.3 2.9	36.9 2.7	36.2 1.9	36.2 2.3	35.2 1.4	35.0 2.0	34.1 1.8	33.1 2.5	33.0 2.8	32.3 2.9	32.5 2.3	32.1 1.2	36.2 2.4
13	30.5 2.2	30.3 1.9	30.4 2.5	30.3 2.6	30.5 1.9	30.8 2.5	30.5 2.5	30.6 2.3	30.9 1.3	31.2 1.3	31.8 1.0	31.5 1.1	32.0 1.9
14	33.3 1.7	33.3 1.3	33.9 1.9	33.9 1.9	33.0 1.3	32.9 0.8	32.2 0.4	31.0 0.9	31.1 2.0	31.1 2.0	30.1 1.1	29.8 1.1	32.1 1.2
15	29.6 1.6	29.5 1.9	29.8 2.0	29.8 1.9	29.8 1.9	29.5 1.8	29.4 1.6	29.2 1.9	29.1 1.9	29.2 2.2	29.3 1.7	29.3 1.5	29.9 1.9
16	33.3 0.3	34.4 0.7	34.0 0.6	33.8 1.0	33.8 0.8	33.6 0.8	33.2 0.7	33.0 0.9	33.1 0.8	33.8 1.3	33.8 1.3	32.8 1.1	32.3 1.1
17	35.1 1.1	34.8 0.8	34.8 0.7	34.5 0.5	34.3 0.3	35.1 0.6	36.0 0.8	35.9 0.9	39.6 1.1	37.7 1.0	38.7 1.1	38.8 1.9	35.4 1.3
18	34.7 0.4	34.0 0.2	33.2 0.5	33.0 1.0	34.0 1.3	34.1 2.1	24.7 2.9	35.0 3.5	34.3 3.3	34.0 3.2	33.3 3.0	33.3 2.9	34.5 1.2
19	35.3 2.2	34.0 0.9	33.8 0.8	34.0 0.8	34.4 0.7	34.5 0.5	34.1 0.3	34.0 0.3	34.0 0.3	34.1 0.4	33.7 0.3	34.0 0.4	34.0 1.6
20	29.1 0.0	28.5 0.0	29.4 0.6	30.1 0.5	30.9 0.9	31.3 0.7	30.1 1.1	30.2 1.4	30.3 1.0	31.0 0.5	31.0 0.2	31.0 0.4	31.2 0.7
21	31.8 0.6	31.0 1.8	31.7 1.5	31.3 0.7	31.3 2.4	30.8 2.3	29.9 1.7	29.8 1.5	29.5 0.7	29.7 1.6	28.8 0.6	29.5 0.9	30.3 0.8
Means	33.9 1.25	34.1 1.40	34.6 1.54	34.3 1.49	34.2 1.47	33.7 1.44	33.4 1.37	33.5 1.46	33.5 1.34	33.4 1.40	33.2 1.08	33.1 1.13	33.6 1.32

WIND DIRECTION AND FORCE.

APRIL 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.
1	SW 1-3	SW 1-3	SW 0-2	SW 2-3	SW 2-4	SSW 2-3	SSW 2-4	SW 2-3	SW 2-3	SW 2-3	SW 2-3	SW 3-4
2	SW 1-3	SW 1-3	SW 2-3	SW 3-4	SW 2-3	WSW 1-3	SSW 0-1	S 0-1	Calm 0	E 0-1	E 0-1	NW 1-2
3	N 2-6	N 2-7	N 2-6	NNW 4-5	NW 4-5	NNW 2-4	N 3-4	N 4-6	NW 3-5	NNW 3-4	NNW 3-4	NW 3-6
4	SSW 1-2	S 0-1	S 0	WNW 1-2	W 1	WNW 2	NW 2	WNW 0-1	Calm 0	NNE 1	N 2	N 2
5	WNW 1-2	NW 2	NW 2	NW 1-2	W 1-2	W 1-3	NW 0-1	NW 2	NW 2-3	NW 2-3	NW 2-3	NW 1-2
6	NW 1-2	NW 1-2	NW 1	NW 1-2	NW 1-2	NW 2	NW 2	NW 1-2	NW 1-2	NW 1-2	NW 1-2	NW 1-2
7	WSW 0-1	SW 0	NW 0	SW 0	Calm 0	S 0-2	Var. 0-1	SW 0-1	SSW 0-1	SSW 0-1	SSW 0-1	SSW 1-2
8	SW 0-1	SW 1	SW 0-1	Calm 0	Calm 0	Calm 0	NW 0-1	Calm 0	NW 0-1	N 1-2	N 1-2	NW 1-2
9	SE 0-1	SE 0-1	SE 0-1	SE 1-2	SE 2	SE 2-3	SE 3	SE 2-3	S 2	S 2	S 1	S 1-2
10	SW 1-3	SW 1-3	SW 1-2	SW 3	SSW 2-3	SW 0-2	SW 0-2	SW 1-2	SW 1-2	SW 1-2	SW 1-2	S 0-2
11	Calm 0	N 1-2	N 1-2	NW 2	NNW 3	NW 3-4	N 4	N 4	N 3-4	N 4	NNW 1-2	NW 1
12	N 2-3	N 2	N 2	N 0-1	N 2-3	NE 3	N 3-4	N 4	NNE 3-4	N 3	N 3	NNW 1
13	N 3	N 3	N 3	NW 3	NW 3	NNW 3	NW 2-4	W 2-4	W 2-4	NW 1-3	NW 2-3	NNW 1-2
14	S 0-1	NW 0-2	Var. 0	W 0-2	SW 0-1	SW 0-2	S 0-1	WSW 0-1	Var. 0-1	Calm 0	S 0-1	S 0-1
15	S 0-1	SW 0-1	SW 0-1	Calm 0	Calm 0	Calm 0	SW 0-2	SW 0	W 0-1	NW 0-1	NW 0-1	N 2-3
16	N 3	NW 4	NW 6	NW 5-6	NW 5	NW 5	NW 3	W 2-3	WNW 1-2	SW 0-1	S 1-3	S 2-3
17	NE 0-1	NW 3	NW 3-4	Var. 0-1	NW 2	Calm 0	NW 2	NW 2	W 1	SSW 1-2	SSW 0-3	SSW 0-3
18	Calm 0	Calm 0	N 1-2	NW 2	NW 2	NW 3	NW 3	N 3	N 2-3	N 2-3	N 2-3	NW 2-3
19	SSW 0-2	SW 0-1	SW 0-2	Var. 0-1	S 0-2	NE 1-2	Var. 0-1	SW 1-2	NE 0-2	NW 0-1	SW 0-1	NW 0
20	NW 2-6	NW 1-3	NW 1-3	W 2-6	Calm 0	Var. 0-2	E 1-3	SW 0	SW 0-2	S 0-1	NW 0-1	SSW 1
21	N 0-1	N 0-1	N 0-1	NW 3	NW 2	NW 3	NW 3	NNW 2-3	N 2	NNW 2-3	NNW 2-3	NNW 3
22	NNW 2-4	NW 1-2	NW 2-4	NW 3	NW 3	NW 3	NW 3	NW 3-4	NW 2-3	NNW 2-3	NW 2-3	NW 1-2
23	NW 2-6	NW 2-6	NW 2-5	N 2-4	N 2-4	N 2-4	N 3	NNW 4	NNW 2-3	NW 2-4	NW 2-3	NW 2-3
24	N 2-4	N 2-3	N 1-3	N 3	N 3	N 2-3	N 2-3	NNW 0-3	E 0-3	SE 0-3	NE 0-2	NNE 1-2
25	SSW 0-1	SW 2-3	SW 1-3	SW 0-2	SW 0-1	S 0-1	S 1-3	S 0-2	S 1-2	S 0-1	SW 1-2	S 1-3
26	N 3-4	N 4-5	NW 3-6	W 4	W 1-3	W 1-4	NW 0-4	NNW 2	NW 2-3	NW 3-4	N 4-5	N 5
27	W 1	W 1-3	WNW 1-2	Var. 0-1	Calm 0	S 0-3	S 0-2	S 0-1	S 0-2	S 0-1	SW 0-2	NW 3
28	SSW 1	SW 1-2	SW 1-2	SW 0-2	SW 0-2	S 1-3	SW 1-3	SSW 0-2	SW 1-3	SW 1-3	SW 0-2	Calm 0
29	S 1-2	S 1-2	SSE 1-3	S 4	S 4	SSE 3	SSE 3	SSE 3	S 2-3	SSE 1-2	S 0-2	SW 0-2
30	W 1-2	W 0-1	SW 0-1	Calm 0	SW 0-2	SW 2-3	SW 2	SW 0-1	SW 0-1	SW 0-1	Calm 0	SW 0
Means.	1.67	1.82	1.78	2.03	1.90	2.08	2.12	1.80	1.72	1.63	1.65	1.78

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Force.
1	SW 1-3	SSW 2-3	S 0-2	SW 3-4	SW 2-3	SSW 2-3	SW 2-4	SW 2-4	SW 1-3	SW 1-3	SW 1-3	SW 1-3	2.4
2	NNW 2	NNW 3	NNW 4	NNW 4	NNW 3	NNW 2-4	N 3-5	N 3-5	N 3-4	N 1-4	N 2-6	N 2-6	2.5
3	NNW 4-6	NW 3-4	NW 3-4	NW 3	NW 1	NW 0-1	Calm 0	SW 0-1	SW 0	SW 0-1	SSW 1-2	SSW 1-2	2.9
4	NNW 1-2	NNW 1	NW 0-1	SW 1	E 0-1	E 0-2	SE 0-1	NW 1-3	NW 1-2	NW 1-2	NW 1-3	NW 1-2	1.2
5	NW 2	NW 2-3	NW 2	NW 2	NW 2-4	NW 2-4	NW 4-5	NW 5	NW 1-3	NW 2-3	NW 2-3	NW 1-3	2.3
6	NW 1	NW 2-3	NW 4-5	NW 2-3	NW 2-3	WNW 2	NW 2-3	WNW 2	NW 0	SW 1	SW 1-2	SW 0-2	1.7
7	SW 1-2	SW 2-3	SW 1	NW 1-2	W 1	SSW 1-2	SSW 0-2	SSW 1	SSW 0-1	SW 0	SW 0-1	SW 0-1	0.6
8	NW 3	NW 2	NW 1	Var. 0-1	S 0-1	S 0-1	S 0-1	S 0-1	S 0-1	S 0-1	SE 0	SE 0-1	0.7
9	SSW 1-2	SW 1-2	SSE 0-1	SSW 0-1	SE 1	S 0-1	SW 1-2	SW 1-3	SW 1-2	SW 1-3	SW 1-3	SW 1-3	1.5
10	W 0-1	SE 0	SE 0	SE 0-1	SE 0	SE 0-1	S 0	S 0	Calm 0	Calm 0	Calm 0	N 1	0.9
11	Calm 0	SW 1-2	S 0-1	N 0-2	WSW 3	SW 1-2	SW 0-1	S 0-1	SSE 0	S 0-1	S 0-1	N 1	1.7
12	NNW 1-2	N 2	NW 2	NW 1	N 1-2	NW 1	NW 1-2	NW 3	N 2-3	N 1-2	N 2-3	NW 3	2.2
13	W 1-2	NW 2-3	NW 2-3	NW 1-3	W 1-4	W 1-4	WNW 1-3	W 1-3	NW 1-3	NW 1-3	NW 1-2	SW 0-2	2.4
14	S 0-1	S 0-1	S 0-1	S 0	W 1	W 1	S 0-1	SW 0	SW 1	SW 2	WSW 0-1	SW 0-1	0.6
15	N 3-4	N 4	N 3	NW 1-2	WNW 1-2	W 1-2	NW 3	NW 0-1	NW 1-2	WNW 0-3	N 3	N 2-3	1.4
16	S 0	SW 1-2	W 0	SW 0-1	SW 0-2	W 0-2	S 0-2	SSW 0-2	SSW 0-1	SW 0-1	W 0-1	Calm 0	2.0
17	SE 0-1	W 0-2	WNW 0-1	SW 0-1	SW 1-2	Calm 0	Calm 0	W 0-2	WSW 1-2	Calm 0	Calm 0	Calm 0	1.1
18	N 2-3	N 1-2	NW 2-3	NNW 2-3	NNW 2	NW 1	N 1-2	NW 2	NW 1-2	W 0-1	W 1-2	SSW 0-2	1.9
19	NW 2	NW 1-2	N 0-1	NW 1-2	NW 1-2	NW 2-3	Calm 0	NW 2-3	NW 2-3	W 0	WNW 1-2	NW 2-3	1.2
20	S 0-1	S 0	SW 0	Calm 0	Calm 0	Calm 0	SSE 0	Calm 0	NE 1-2	NNE 0-1	NNE 0-1	N 1	0.9
21	NNW 3-4	NW 2-3	NW 2-3	NW 1-3	NW 2	NW 1-2	NNW 2-4	NNW 4-5	NW 4-5	NNW 3-4	N 2-3	N 3-5	2.5
22	NNW 1-2	NW 2	NNW 1-3	NNW 1-3	N 1-3	N 3-4	N 2-4	NNW 2-4	NW 3	NW 3-4	NW 2-5	NNW 1-4	2.7
23	NW 1-3	NW 2-3	W 1-2	NW 2-3	NW 3-4	N 0-1	NNW 1-2	NW 0-2	N 1-3	N 1-3	N 1-3	N 2-5	2.6
24	NNE 2-3	N 2	NNW 1-2	NW 2-3	W 2-5	SW 1-3	SSE 1-5	S 0-3	S 0-3	S 0-3	S 0-3	S 0-2	2.0
25	S 0-1	S 1-2	SSW 0-3	W 1-3	SW 1-3	SW 0-1	Calm 0	Calm 0	NW 2	NW 2-3	N 2-3	N 3	1.4
26	NW 3	NW 3-4	NW 2-4	S 0-1	N 0-1	SW 1-2	Calm 0	N 1-2	N 1-2	NNE 0-1	SE 0	NW 1	2.4
27	SW 1-3	SW 1-2	SW 0-1	W 0-1	Var. 0-1	Calm 0	SSE 0-1	S 0-1	S 1-2	S 1-2	S 1	1.2	1.0
28	SW 0	SW 0	SE 0-1	SE 0-1	SE 0	Calm 0	Calm 0	NE 1-2	Calm 0	SSW 0-1	NW 0	SE 0	0.8
29	SW 0-1	S 0-1	SW 0-1	SW 0-2	SW 0-2	SW 0-2	SW 0-3	W 0-2	WNW 0-2	W 0-2	W 0-2	W 0-2	1.6
30	SW 0	SW 0-1	SW 0-1	S 0-1	S 0-1	S 0-1	S 0-1	S 0-1	S 1-2	S 1-2	S 1-2	S 1	0.8
Means.	1.57	1.77	1.47	1.42	1.52	1.27	1.35	1.58	1.48	1.30	1.43	1.57	1.65

WIND DIRECTION AND FORCE.

MAY 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.
1	S 1-2	S 1-2	S 1-2	S 2	S 1-3	S 2	SSE 2	S 1-2	S 2-3	SE 1-2	SE 1-2	SE 1-2
2	NW 1-2	NW 1-2	NW 1-2	N 2-4	N 0-2	N 2-4	NE 3-4	NNE 3	NE 3-4	NE 3-4	ESE 3-4	ESE 3-4
3	NE 1-2	N 0-1	N 1-2	N 2	N 1	N 1	NW 1	NW 0	Calm 0	Calm 0	SSE 0-1	SSE 0-1
4	S 3	S 3	S 3	S 2	S 2	S 3	S 3	S 1-2	S 1-2	S 1-2	S 2	S 0-1
5	S 1-3	S 0-1	S 2-3	SSW 3	SSW 3-5	SW 2-4	W 1-2	SW 0-3	SW 1-2	WSW 1-2	S 0-1	SW 0-1
6	SW 1-2	SW 0-1	SW 1-2	Calm 0	SW 0-1	SW 0-1	SW 1	SW 1	SW 0-1	S 1-2	S 0-1	SE 1
7	SE 0-1	S 0-1	S 0-1	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0
8	NW 3-4	NW 3-4	NW 4	NW 4	NW 4	NW 4	NW 4	NW 3-4	NW 3-4	NNW 2-3	NW 1-2	NW 1-2
9	NW 6	NW 6	NW 5-6	N 5-6	N 6	N 6	N 5-7	NW 5-7	NNW 5	N 5-6	N 6-7	N 5-6
10	NW 2-3	NW 1-2	NW 1-2	WNW 1	NW 1	NW 1	NW 1	WNW 0	Calm 0	SE 0-1	SE 0-1	SE 0-1
11	SE 2-3	SE 2-3	SE 3	SE 5	SE 4	SE 4	SE 6	SE 5	ESE 4-5	ESE 5	ESE 5	ESE 4-5
12	SE 4	SE 3-4	SE 3-4	SSE 3-4	SE 5	SE 5	SSE 4	SE 4	SSE 3-4	S 3-4	S 3	S 3-4
13	S 0-1	SSE 0-2	SSE 0-1	SSW 0-3	SSE 0-2	S 3	S 3	S 3	SW 3-4	SW 1-3	S 0-3	S 3
14	Calm 0	SW 0-3	WSW 0-2	SW 0-1	SW 0-2	SW 0-1	SW 0-1	W 0-1	NW 0-1	NW 0-1	NW 0-1	NW 0-1
15	Var. 0-2	Var. 0-1	Var. 0-2	SW 1-2	SW 2-3	SW 2-3	SW 0-1	SW 1-2	NNE 0-1	SW 0-1	W 0-1	SW 0-1
16	ESE 1-2	ESE 0-1	E 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	Calm 0	Calm 0	SE 0	Calm 0	E 0-1
17	NW 4-5	N 4-5	N 4-5	NW 3-4	NW 3-4	NW 3-4	NW 4-5	N 4-5	N 3-4	N 4-5	N 3-4	NW 3-4
18	W 1-4	NW 1-4	SW 1-2	S 0-1	SW 0-2	S 1-3	SW 1	SW 0-1	SE 0-1	SE 0-2	SW 0-2	SW 0-2
19	W 2-7	WSW 1-7	W 2-7	Var. 0-2	NW 2-7	WSW 2-6	WSW 2-4	WSW 0-3	W 1-3	W 2-3	Var. 0-1	NW 0-1
20	NNW 4-5	N 4-5	NNW 3-5	NW 2-3	NW 5	NW 5	NW 5	NW 4	NW 3-4	NW 4	NW 2-3	NW 2-3
21	W 2-3	WNW 2-5	WNW 2-6	WSW 3-4	WSW 3-5	W 1-3	W 4	W 2-3	NW 2-4	NW 3-4	NW 2-3	NW 3-4
22	NW 3-5	NW 2-3	NW 1-3	WSW 3-5	WSW 3-6	W 3-6	W 3-7	W 5	W 3-4	WNW 4	WNW 3-4	WNW 2-3
23	NW 2-4	NW 2-3	NW 2-3	NW 3	NW 3	NW 3	NW 1	NW 1	NW 1-2	NW 1-2	NW 1-2	NW 0-1
24	S 0-1	WSW 0-1	WSW 0-1	NW 2	W 4	NW 4	NW 2	NW 0-1	NW 1-2	N 1-3	NW 3	NW 2-3
25	WNW 3-4	N 3-4	NW 3	N 1-2	NW 2	NW 1	SSE 1	SE 0-1	SE 0-1	SE 0-1	S 0-1	S 0-1
26	N 0-1	NW 0-1	W 0-1	NW 1	NW 5	NW 5	NNW 5	NW 4-5	NW 3	NW 3-4	NW 4	NW 3
27	NW 1-2	NW 2	N 1-2	NW 5	NW 5	NNW 5	NNW 4-5	NW 3	NW 3	NW 3-4	NW 4	NW 3
28	NW 0-1	NNW 0-1	NW 1	W 0-1	W 1	W 1	NW 2	NW 1-2	NW 1-2	SW 1-2	NW 1-2	W 1-3
29	NW 0-1	Calm 0	SE 0	Var. 0	S 0-2	SSE 1	S 2	S 1	S 0-1	S 1-2	S 2	S 1-2
30	NW 3-4	NW 3-5	NW 3-5	NW 3	W 3-4	W 1-3	Var. 0-1	SE 1-2	S 1-2	SE 0-1	Calm 0	E 0-1
31	NNW 4-5	NW 5-6	NW 3-5	W 5	NW 4	NW 4	NW 5	NW 5	WNW 4-5	NW 3-4	WNW 1-2	W 2-6
Means	2.37	2.22	2.21	2.29	2.66	2.65	2.55	2.13	2.00	2.15	1.77	1.85

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Force.
1	SE 1-2	SE 2	SSE 0-1	SSE 0-1	Calm 0	Calm 0	Calm 0	Calm 0	NE 0-1	E 1-2	NNE 0-1	N 0-1	1.2
2	NE 3-4	NE 4-5	NE 3-5	ENE 4-5	NE 2-5	ENE 2-4	E 2-3	NE 2-3	ENE 1-2	N 1-2	NE 1-2	N 1-2	2.7
3	SSE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 1-2	SSE 1-2	S 1	S 1	S 1-2	S 1-2	S 3	S 3	1.1
4	S 1-2	S 0-1	S 2	S 1-2	SSW 3	SSW 1-2	SW 1-2	S 2-3	S 1-2	S 2-3	S 1-2	S 1-2	2.0
5	W 0-2	W 0-1	SE 0-1	SSE 0-1	SE 0-1	S 0	SE 0-1	S 0	Calm 0	SE 0-1	S 0-1	S 1-2	1.2
6	S 0-1	S 1-2	SE 0-1	SE 0-1	S 0-1	S 0-1	S 0-1	SSE 1-2	SE 1-2	Calm 0	S 0	SE 0	0.7
7	SE 0	SE 0	Calm 0	SE 0-1	Calm 0	Calm 0	Calm 0	NW 1-2	NW 2	NNW 3	N 3	N 3-4	0.6
8	NW 2-3	NW 1-2	NW 1-2	NW 1-2	NW 2	NW 3-4	NNW 4	NW 4-5	N 3-5	NW 4-5	NW 4-5	NW 6	3.3
9	N 4-5	N 4-5	NNW 4-5	N 4-5	NW 3-4	NW 3	N 3	N 3-4	N 1-2	NW 1-2	NW 1-2	NW 1-2	4.4
10	S 0-1	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 3-4	SE 2-3	SE 2-3	SE 2-3	SE 2-3	1.4
11	ESE 4-5	ESE 4-5	SE 3-4	SE 3	SE 3-4	SE 4-5	SE 4-5	SE 4-5	ESE 3-4	SE 3-4	SE 3-4	SE 3-4	4.0
12	S 3-4	S 3	S 3	S 2-3	S 3-4	S 4	S 3-4	S 3	S 2-3	SE 1	S 0-1	S 0-2	3.2
13	S 2-3	SSE 1-3	SW 2-3	S 3-4	SW 3-5	SW 3-5	SW 3-5	SW 3	SSW 2-4	SW 0-2	SW 1-3	SW 0-2	2.3
14	NW 3	NW 1-2	NW 2-3	NW 2-3	WNW 3-4	NW 3	NW 3	NW 3-4	WNW 0-3	WNW 0-1	NW 0-1	SSE 0-2	1.4
15	SW 1-2	SW 2-3	SW 1-2	SW 0-1	SW 1-2	SW 3-4	SW 2-4	SW 0-2	Calm 0	S 1-2	SE 1-2	SE 2-3	1.4
16	SE 0-1	Calm 0	Calm 0	SE 0-1	SE 0-1	SE 0	SE 0	ESE 0	Calm 0	NW 2	NW 2-4	NW 3	0.6
17	N 4	N 5	NNW 3-4	NW 2-3	WNW 0-1	NW 2	WNW 2	NW 3	W 2-3	NW 2-3	W 2	W 1-3	3.3
18	SW 1-2	W 2-3	W 0-1	W 0-1	NW 2	W 3-4	NNW 3-4	N 5	NNW 4-5	NW 3-4	NW 3-4	NW 2-4	2.0
19	NW 1-2	NW 2-3	NW 2-3	NW 2-3	N 3-4	N 3	N 3-4	N 4-5	N 3-4	N 3-5	N 4-5	NNW 4-6	3.0
20	WNW 3-4	NW 2-3	NW 2-3	NW 3-4	NW 3-4	NW 3-4	WNW 4	NW 3	WNW 3	NW 2-3	WNW 2-3	W 2-3	3.5
21	NW 2-3	NW 2-4	NW 2-3	N 3-4	NW 3-4	N 3-4	N 3-4	NNW 5	NW 4	NW 3-4	NW 1-2	NW 3-4	3.2
22	W 3-4	WNW 3-4	WNW 2-5	WNW 3-6	W 1-2	NW 3-4	NW 4	NW 3	NW 2-3	NW 1-2	NW 2-3	NW 2-4	3.4
23	NW 2	N 2	N 0-1	NW 0-1	N 0-1	NNW 0-1	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	1.2
24	NW 3-5	NNW 3	NW 3-4	NW 2-3	NW 0-1	N 0-1	NNW 3	NW 2-3	NW 2-3	W 3	NW 3-4	NW 3-4	2.3
25	SSW 1-2	SW 0-3	S 1-2	SW 0-2	S 0-1	SW 0-2	SSE 0-1	SSW 1	N 1	NNW 1-2	NW 1	N 1-2	1.3
26	SSW 1-2	S 1-2	S 0-1	S 0-1	S 0-1	Calm 0	SW 0-1	SE 0-1	SE 0	SE 0	SE 0	NW 1-2	2.3
27	NW 3-4	NNW 3	NW 2-3	NW 4-5	NW 5	NW 4-5	NW 4-5	NNW 4-5	NW 3-4	NW 2-3	NW 1-2	NNW 1	3.4
28	W 1-2	NW 0-1	NW 1-2	NW 1-2	N 2-4	NNW 4-5	N 2-5	NNW 3-4	NNW 1-5	NW 0-5	NNW 0-5	N 1	1.8
29	S 0-2	SW 1-2	SW 1-2	SW 0-1	S 0	Calm 0	Calm 0	NW 3	WNW 2-3	NW 3-4	NW 3	NW 2-3	1.2
30	Calm 0	Calm 0	WNW 0-1	NNW 3	NNW 3	NNW 3-4	N 3	N 3	N 3-4	N 4	N 4	N 4-5	2.3
31	NW 4-5	NW 4-5	NW 4	WNW 3-4	NW 3-4	NW 3-4	WNW 4	NW 3-4	NW 4	NNW 5	NW 2-3	NW 3-4	4.0
Means	2.18	2.16	1.92	2.03	2.05	2.27	2.32	2.61	2.13	2.16	2.07	2.31	2.21

WIND DIRECTION AND FORCE.

AUGUST 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.
1	SW 1-3	SW 0-1	SW 1	SE 0-1	SE 0	SE 0-1	E 1-2	SE 0	Calm 0	E 0	Calm 0	W 0-1
2	NW 3	NW 3-4	NW 3-4	NW 4	NW 3	NW 2	NW 0-1	W 0-2	WSW 1-2	W 0-1	NW 0-1	NW 1-2
3	N 1-2	Var. 0-1	NNW 0-2	NE 3	NNE 2-3	NE 3	NNE 3	NNE 3	N 1-2	NW 1-2	NW 0-1	Calm 0
4	NW 0-3	NW 1-3	NW 0-4	NW 1-4	W 1-3	W 1-6	SW 1-3	S 1-2	W 0-2	SW 0-2	W 1-3	W 0-2
5	W 1-3	W 1-6	NW 1-4	NW 3-4	NW 2-5	NW 3-5	WNW 3-6	W 1-4	W 1-4	W 3-5	WNW 2-4	W 3-4
6	W 2-4	NW 1-3	W 1-3	NW 1-3	WNW 2-4	NW 7-8	NW 7	NW 4-6	NW 2-4	NW 4-6	NW 4-6	WNW 3-4
7	SW 0-3	SW 0-2	SW 0-2	SW 2-4	W 2-4	SW 1-2	SW 1-3	W 1-2	SW 0-3	SW 1-2	W 1-3	SW 1-3
8	SSW 0-3	SSW 0-3	SW 0-2	SW 2-4	S 1-3	S 1-3	S 1-3	S 1-2	S 0-3	SW 1-3	W 0-1	SW 0
9	NNE 1	NNE 3	N 3	NNE 2-3	N 2-3	N 2-4	N 1-2	NE 2-4	NE 2-4	N 0-2	N 2-3	NE 2-4
10	NNE 1-3	NNE 0-4	N 1-3	NE 1-3	NE 1-4	E 0-1	E 0-2	NE 0-2	NE 1-2	NE 0-1	NW 1-2	N 1-2
11	NE 1-3	N 1-2	NE 1-4	N 3	N 1-3	NW 1-3	NW 1-3	NW 1-2	NW 1-2	NE 1-2	N 1-2	N 2-3
12	N 2-3	N 2-3	NNW 1-2	N 3	NNW 2	NW 1	Calm 0	SW 1-2	SW 1-2	SW 1-2	SW 0-1	Calm 0
13	NW 2-3	WNW 1-2	WNW 0-1	Calm 0	W 2-3	WNW 3	NW 4	NW 3-4	NW 1-2	NW 2-3	NW 3-4	NW 0-1
14	NW 1-2	NW 1-2	NW 1-2	NW 4	NW 4	NW 2-3	NW 3	NW 3-4	NW 1-2	NW 3-4	NW 3-4	NW 3-4
15	NW 5-7	NW 5-6	NW 5-6	NNW 8-9	NW 8-9	NW 8	NW 6-7	NW 3	NW 6-7	NW 6-7	NW 7-8	NW 7-8
16	NW 5-6	NW 4-5	NW 4-6	NW 4-7	NW 5-7	NW 5-7	NW 4-5	NW 6-7	NNW 3-4	NW 2-3	NW 4	N 4-6
17	NNW 1-3	NW 1-2	NNW 1-3	NW 1-3	NNW 1-3	N 2	N 3	N 3-4	NW 1-2	NW 2-3	NW 2-3	NW 2-3
18	NW 2-3	NW 3-4	NW 3-4	W 1-5	W 1-4	W 1-6	W 2-4	W 1-5	W 4-7	W 0-3	W 4-7	W 4-6
19	SW 0-3	SW 0-3	SW 0-2	S 0-3	SE 0-3	SE 0-3	SE 0-3	SE 0-2	SSE 0-2	S 0-3	SE 1-3	S 1-4
20	SE 0-2	SW 0-2	S 0-2	E 1-3	SE 0-3	SE 0-3	SE 1-4	SE 0-2	SE 1-2	SE 0-2	S 1-2	S 2-3
21	SE 0-2	S 0-1	S 0-1	S 3	S 2-3	S 0-1	S 0-1	SE 1-2	Calm 0	SE 0	Calm 0	Calm 0
22	N 2-3	NNW 2-3	N 3	N 2	N 3	N 3	N 3-4	N 3-4	N 4	NW 2-3	NW 3-4	NW 3-4
23	N 0-3	N 3	N 0-4	NW 2-4	NW 3-4	NW 2-4	NW 2-4	NNW 3-4	NW 2-3	NW 4-5	NW 0-3	NW 1-3
24	N 2	N 1-2	N 1-2	NW 2	NW 0-2	NW 1	WNW 1-2	N 1-2	W 0-1	Calm 0	Calm 0	W 0
25	SW 0-4	SW 0-3	S 0-3	S 1-4	SW 1-4	SW 1-3	SW 1-4	SW 0-3	SW 1-4	SW 1-5	SW 3-4	SW 3-4
26	S 0-2	SW 0-1	S 0-2	SW 0-3	SW 0-1	SW 1-3	S 0-1	SW 1-2	SSW 2-3	SW 1	S 0-2	S 0-1
27	S 0	Calm 0	Calm 0	SSW 0	SSW 0	Calm 0	SE 0	SW 0-1	SSW 0-1	SW 1	SW 0-1	S 0
28	NNE 2-3	N 1-2	N 2-3	NE 2	N 3	N 3	N 3	N 1-2	N 3	N 2	N 3	NNE 3
29	N 1-2	NNW 1-3	N 1-2	N 2	N 3-4	NW 2	N 1	N 1-2	NW 1-2	NW 3	NW 1-2	N 2-3
30	N 3	N 2-3	N 2-3	N 3	N 3	N 3	N 3	N 1-2	W 0-1	Var. 0	SE 1	S 0-1
31	SE 1-2	SE 1-2	SE 1-2	SE 2-3	SE 3	SE 3	SE 2	SE 2	SE 0-1	SSE 0-1	S 1-2	SE 2-3
Means	2.05	2.05	1.95	2.65	2.65	2.63	2.44	2.26	1.95	1.92	2.15	2.13

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Force.
1	W 0	SW 0	Calm 0	S 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	NW 1-2	NW 2	NW 3	0.7
2	W 0-3	W 0-1	NW 1	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	NNW 2	NW 1-2	1.3
3	W 0-1	S 0-1	S 0-1	SE 1-2	E 0-1	SE 0-1	NE 0-2	NE 0-2	NE 0-2	Var. 0-3	SW 0-2	NW 0-2	1.3
4	SW 0-2	W 0-1	SW 0-1	WNW 1-2	W 1-3	WNW 1-2	W 0-3	W 2-3	W 2-4	W 1-2	NW 1-4	NW 2-5	1.8
5	W 1-4	NW 2-6	NW 0-6	NW 0-7	W 2-4	W 2-4	W 2-5	NW 4-6	W 2-4	N 2-6	W 2-4	W 2-4	3.3
6	W 3-4	W 1-2	W 2-3	W 2-4	W 3-4	NW 1-4	W 1-2	W 1-4	W 1-3	SW 0-1	SW 0-2	SW 0-2	3.0
7	SW 0-1	SW 1-5	SW 0-3	SW 0-2	SW 0-3	SW 0-2	SW 0-3	SW 0-2	S 0-3	SW 0-3	SW 0-2	SSW 0-3	1.6
8	ESE 0	Calm 0	Calm 0	Calm 0	E 0-1	E 0	Calm 0	E 0	Calm 0	S 0	S 0	N 1-2	0.9
9	N 1-3	N 3	NW 2-3	NE 2	NE 2-3	NE 3	NE 0-3	NE 3	NE 2-4	NNE 3-4	NNE 1-4	N 1-3	2.5
10	N 0-2	N 1-2	N 1-2	NNE 1-2	NE 2-3	NNE 1-3	NE 1-2	NNE 0-2	N 0-1	N 0	ENE 1-2	N 2-3	1.6
11	N 3	NW 2-3	NW 2-3	N 2-3	NNW 3	N 2-3	N 2-3	NW 2-3	NNE 1-3	NW 2-3	N 1-3	N 2-3	2.2
12	NW 1-2	NW 0-1	NW 2-3	NW 3	NW 1-2	NW 2-3	NW 3-4	NW 2-3	NW 2	NW 2	NW 1-2	NW 2	1.3
13	W 0-1	W 1-2	WNW 1-2	NW 1-2	W 0-1	WNW 1	NW 2	NW 2-3	NNW 2	NW 2-3	NW 1-2	NW 1-3	1.9
14	NW 2-3	NW 3-4	NW 4-5	NNW 5-6	NNW 5-6	NW 4-5	NNW 3-4	NW 4	NW 5-6	NW 5-6	NNW 4-6	NW 5-7	3.7
15	NW 6-7	NW 5-6	NW 6-7	NW 5-6	NW 4-5	NW 5	NW 4-5	NW 2-3	NW 3-4	NW 2-4	NW 3-5	NW 4-6	5.6
16	N 3-4	N 4-5	N 3-4	N 2-3	NW 3-4	NW 3	NW 3	NNW 3-4	NW 3	NW 2-3	NW 1-3	NNW 1-3	4.0
17	NNW 3	NW 2-3	NW 3-4	NW 3-4	NW 3-4	NW 2-4	NW 4-5	NW 3	N 1-2	NNW 1-2	NW 1-4	NW 1-3	2.5
18	W 1-4	W 2-6	NW 2-5	W 2-7	W 1-5	W 0-2	SW 0-4	SW 0-2	SW 0-2	SW 0-2	SW 0-2	SW 0-2	2.8
19	SSE 0-3	SE 0-1	SW 1-3	SE 0-3	SE 1-3	SE 1-3	ESE 0-2	E 0-2	S 0-3	SW 0-2	S 0-3	Var. 0-2	1.6
20	SE 1-3	S 2-3	S 2-3	SW 2-3	SW 2-3	S 0-2	SE 0-2	SE 1-3	SSE 0-3	SSE 1-2	S 0-2	S 0-2	1.6
21	S 0	Calm 0	Calm 0	S 0	Calm 0	NW 0-1	NW 1-2	NW 2	N 2	NW 2-3	N 2	N 2-3	1.0
22	NW 4-5	NW 1-3	NW 0-2	NW 2-4	NW 2-5	NW 4-5	NW 1-4	NW 3-4	NW 1-4	NW 0-2	NNW 0-3	N 0-4	2.9
23	NW 1-4	NW 2-3	NW 3-4	N 1-2	NE 0-2	NE 0-3	N 0-2	N 0-4	N 1-3	N 1-3	N 2-3	N 2-3	2.4
24	S 0-1	SW 0-1	S 1-2	S 0-3	S 1-2	SW 0-2	S 0-2	SSW 0-3	S 0-3	SW 0-2	WSW 0-2	SW 0-3	1.1
25	SSW 2-3	SW 3-4	SW 0-2	SW 3-4	SW 0-2	SSW 1-4	SSW 0-2	S 0-2	S 0-1	S 0-2	S 0-2	S 0-2	2.0
26	Calm 0	SW 0	Calm 0	SW 0	Calm 0	ESE 0-1	Calm 0	E 0	Calm 0	Calm 0	Calm 0	Calm 0	0.6
27	Calm 0	Calm 0	N 0	Calm 0	Calm 0	Calm 0	N 0-1	N 0-1	N 1-2	NE 0-2	NE 2-3	N 2	0.5
28	N 2	N 1-2	N 1-2	N 1-2	NE 1-2	N 1-2	N 3-4	N 2-4	N 1-3	N 2-4	NNE 2-3	NNE 1-3	2.3
29	N 1-2	N 2-3	NW 3	N 2	N 1-2	N 2-3	N 1-3	N 1	N 1-3	NNE 1-2	NNE 2-3	NNE 2	2.0
30	ESE 1-2	ESE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	ESE 1-2	SE 1-2	SE 1-2	SE 1-2	1.7
31	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	1.4
Means	1.79	1.86	1.94	1.98	1.89	1.82	1.76	1.88	1.78	1.71	1.82	2.02	2.05

WIND DIRECTION AND FORCE.

SEPTEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.
1	SE 0-1	SE 0-1	SE 1	SE 1-2	SE 2	SE 1	SE 1	SE 0-1	SE 0-1	SE 1	SE 1-2	SE 1-2
2	SSE 0	SSE 0-1	SE 0-1	SSE 0	Calm 0	SSE 0	SSE 0	E 0	E 0	SE 0-1	SE 0-1	SE 0-1
3	SE 0-1	E 0-1	ESE 0-1	E 1	S 1	Calm 0	SW 0	SW 1-2	SW 1-2	SW 1-2	SW 1-2	SW 1-2
4	SSW 1-3	S 0-2	SW 1-3	S 1-3	SSW 1-4	SW 2-3	S 2-3	SW 0-2	WSW 0-2	SW 0-2	SW 0-2	SW 0-3
5	NW 0-1	NW 1-2	SW 0-1	W 0-2	W 0-2	W 0-3	NW 3	W 1-3	W 2-3	W 2-3	W 2-4	W 2-4
6	W 1-5	NW 1-3	W 0-1	W 0-3	NW 2	W 1-2	WNW 3	NW 2-3	NNW 2-3	NW 2-4	NW 3	NW 3-4
7	Var. 0-2	SW 0-3	W 0-3	W 0-2	S 0-2	S 0-2	S 0-2	W 1-2	W 0-2	SW 0-3	S 1-3	W 0-2
8	SW 1-3	SW 1-3	SW 0-2	SW 3-4	SSW 2-4	SW 1-3	SW 0-2	SW 3-4	SW 1-3	SW 1-3	SW 1-3	SW 1-3
9	NW 0-1	NW 0-1	WNW 0-1	Calm 0	Calm 0	NW 0	NW 3	NW 3	NW 3-4	NW 4	NW 4-5	NW 4-5
10	NW 4-6	NW 4-5	N 4-5	N 4-5	NNW 5	NNW 4	NW 3-4	NW 2-3	WNW 2-3	NW 2-3	NW 2-3	NW 1-2
11	W 2-4	W 1-5	WNW 2-4	W 0-3	NW 1-3	WNW 3	W 2	W 1-3	NW 2-3	NW 2-3	NW 4	NW 4-5
12	N 3-4	N 3-4	N 3-4	N 3	N 2	NW 0	N 0-1	NW 0-1	NW 0-1	NW 0-1	W 0	Calm 0
13	SE 0-1	S 0-1	S 0	S 0-1	SW 1	Var. 0	Calm 0	NW 0	WSW 0-1	W 0	S 0-1	SW 0-1
14	SW 0-2	SW 1-2	S 0-1	S 0	SW 0-2	SW 0-1	S 0	1-2	SW 0-1	SW 0-1	S 0-1	SW 1-2
15	SE 1-2	S 0-2	SE 0-1	S 0-2	SE 0-3	NE 0	Calm 0	SW 0-1	S 0-1	SW 0-1	Calm 0	N 0-1
16	S 0-1	S 0-2	S 0-1	S 0-2	SW 0-2	SW 0-2	S 1-2	SW 0-1	S 1-2	S 0-1	S 0-1	SW 0-1
17	S 0-1	S 0-1	S 0-1	SSW 3	SSW 2-4	S 1-3	S 2	SW 0-1	SW 0-1	SW 2-3	SW 1-2	SW 2-3
18	N 2	NW 4	N 4-5	N 4	N 3	N 4	N 4	N 3-4	N 3-4	N 4	N 4	N 4
19	SW 1-2	W 2-5	S 0-1	W 0-5	SW 0-3	SW 0-1	SW 0-2	Calm 0	SW 0-1	SE 0-1	Calm 0	NW 3
20	NW 1-2	NW 2-4	W 0-3	NW 0-2	SW 0-2	SW 0-3	SW 0-3	SW 0-1	SW 0-3	SW 0-1	SW 1-2	SW 1-2
21	S 0	SW 0-1	SSW 0-1	S 0-1	SW 0	Calm 0	E 0	Calm 0	Calm 0	Calm 0	NW 0	W 0-1
22	SSE 0	SSE 0	SE 0	S 0	Calm 0	Calm 0	SE 0	SE 0	SE 0	Calm 0	S 0	S 0
23	NE 1-4	NNE 3-4	NE 3	NE 3-4	NE 4	NE 4-5	NE 3-4	NE 4-5	NE 5-6	NE 5-6	NE 7-8	E 5-6
24	SE 1-2	SE 3	SSE 1-2	S 1	SE 0-1	Var. 0	SE 0	SE 0	S 0	Calm 0	Calm 0	SE 0
25	N 4-5	N 3-4	N 0-3	NW 2-4	W 5	NE 2-4	NE 5-6	NE 2-5	NE 3-5	N 1-2	NW 3-4	NW 3-4
26	NW 0	NW 1-2	Calm 0	Calm 0	S 0	S 0-1	SE 1	SE 1	SE 1-2	SE 1-2	SE 1-2	SE 1-2
27	SSE 0-1	SE 0-2	SE 0	SE 0-1	Calm 0	Calm 0	Calm 0	NW 1	N 1	N 1-2	N 1-2	N 1-2
28	NW 3-4	NW 3	NW 1-2	NW 3	NNW 1-2	N 0-1	Calm 0	Calm 0	ENE 1	ENE 1	SE 0	SE 0-1
29	S 1-2	S 0-2	S 1-2	S 0-3	S 0-3	SW 2-3	SSW 2-3	2-4	SW 1-2	SSW 1-2	S 0-1	SW 1-3
30	N 1-3	N 0-3	N 0-2	NNW 0-2	N 1-2	NE 2-4	NE 2-4	N 1-2	NE 1-2	NE 3-4	N 1-2	NW 1-3
Means	1.53	1.80	1.27	1.58	1.62	1.33	1.63	1.47	1.48	1.62	1.67	1.93

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Dir'n.Force.	Force.
1	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 0-1	SE 0-1	SE 0	SE 0	SE 0-1	S 0	Calm 0	S 0	0.8
2	SE 0-1	SE 1-2	SE 1	SE 1	SSE 1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SSE 0	SSE 0	SE 0-1	0.4
3	S 0-2	SW 1-2	S 2-3	S 2-3	SSW 1-3	S 1-3	S 2-4	S 3-4	S 2-4	S 1-3	S 1-3	SSW 1-4	1.7
4	S 1-2	SW 1-3	SW 1-3	SW 1-3	SW 0-2	SW 0-1	E 0-1	S 0-1	SW 0-1	NNE 0-1	NW 1	NW 1	1.3
5	SW 2-4	S 0-1	SW 1-3	W 2-4	SW 1-4	W 0-3	W 1-3	Var. 1-3	W 1-3	W 0-2	SW 0-3	SW 0-2	1.8
6	NW 2-3	WNW 2-3	NW 2-3	NW 3	WNW 2-3	W 1-4	Var. 0-2	S 0-3	S 0-2	S 0-2	SW 0-2	S 0-2	2.1
7	S 0-2	SW 1-2	S 0-3	S 0-3	SW 0-2	SW 1-3	SW 1-3	SW 2-3	SW 1-3	SW 0-2	SSW 0-3	SW 0-3	1.4
8	SW 0-3	SW 0-2	SW 0-2	Calm 0	Calm 0	SW 0-1	SW 0-1	Calm 0	SE 0	Calm 0	E 0-1	Calm 0	1.3
9	NW 4-5	NW 4-5	NW 5	NW 4-5	NW 5	NW 5	NW 4	NW 4-5	NW 4	NNW 4-5	NNW 5-6	NW 4-5	3.4
10	NW 2	NW 1	W 1-2	W 1-2	NW 2	NW 2-3	W 2	NW 1-3	WNW 1-3	W 2-4	W 1-4	WNW 1-4	2.8
11	NW 4-5	N 1-2	NW 1-2	NNW 3-4	NW 3	NW 2	NW 2	NW 1-2	NW 3-4	NW 3	NNW 4-5	N 4	2.8
12	Calm 0	WSW 0-1	WSW 1	S 0	SW 0	SW 0-1	Calm 0	S 0	Calm 0	SE 0-1	SE 0-1	Calm 0	0.9
13	W 0	SW 1-2	W 0-1	SW 0-1	SW 0-1	SW 0-1	SW 0-1	NW 0-1	SW 0-2	SW 0-1	SW 0-1	SW 0-1	0.5
14	S 0-2	SW 1-2	SSW 2-4	SW 2-3	SW 0-2	SW 0-2	SW 0-2	SW 1-2	S 0-2	SSE 0-2	S 0-2	SSE 0-1	1.0
15	SW 0	SW 0-1	SW 0-1	SW 0-1	S 0-1	S 0-1	S 0-1	SSE 0-1	SSE 0-1	S 0-1	S 0-1	S 0-2	0.6
16	N 0-1	S 1-2	S 0-2	S 0-2	S 0-1	SSE 0-1	SW 0-1	SW 1-2	S 0-1	SE 0-1	S 0-1	S 0-1	0.8
17	SW 1-2	S 1-2	SW 1-2	S 1-2	SW 0-1	Calm 0	SW 0-1	S 0	SE 0	Calm 0	N 2-3	N 3	1.4
18	NNW 3	NNW 2-3	NNW 2-3	NW 4	NW 3	NW 3	W 1-2	NW 4	NW 3-4	W 1-3	W 1-3	WNW 1-4	3.2
19	NW 3	NW 2-3	NW 1-2	NW 2-3	NW 2-3	NW 4	NW 4	NW 4	NW 5	NW 4-5	NW 4-5	NW 4-5	2.4
20	SW 0-2	S 0-1	SE 0-1	SSW 0-1	SW 1	SW 0-1	SW 1-2	S 1-2	S 0-1	S 1	S 0-1	S 0-1	1.1
21	SW 0-1	SE 0	SW 0	SE 1	SE 0	SE 1	SE 6	Calm 0	S 5	SE 5	SE 4	SE 5	1.2
22	SW 1	Calm 0	NE 1-2	NE 1-2	NE 2-3	NE 2-3	NE 3	N 1-2	N 1-2	N 3-4	NNE 3-4	NE 4-5	1.1
23	ESE 3-4	E 4-5	E 4-5	SE 3-4	ESE 4	SE 3-4	SE 3-4	E 5-6	SE 2-4	SE 2-3	SE 3	SE 2-3	4.0
24	NNW 3	NW 2-3	NW 3	NW 3-4	N 4-5	N 4	NW 3-4	NW 4-5	NW 3-4	NNW 3-4	NW 3	N 3-5	2.1
25	N 3	N 2-3	N 2-3	N 2-3	N 2-3	NW 3	NW 2-3	NW 2-3	NW 1-2	NW 1-2	Calm 0	Calm 0	2.7
26	S 2-3	SE 2	SSE 1-2	SE 2-3	SE 2-3	SE 2-3	S 2-3	SSE 2-3	SE 1-2	SE 2-3	S 1-2	S 1-2	1.4
27	NNW 3-4	NW 3-4	NNW 3-4	NW 1-3	NW 0-1	N 2-3	N 2-3	NNW 1-2	NW 1-2	NW 0-1	NW 0-1	NW 3	1.5
28	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 1	SE 1	SE 1	SE 1-2	SE 2-4	S 1-3	S 1-3	S 0-2	1.2
29	S 0-1	S 0-1	SW 0-1	E 0	Calm 0	SE 0-1	SE 0	Calm 0	N 0-2	NE 1-2	NNE 1-2	N 0-2	1.1
30	NW 0-2	N 2-3	N 3	NW 1-2	NW 2	N 1	NW 1-2	NW 1-2	NW 1-2	NW 1-3	NW 1-3	NW 0-3	1.8
Means	1.75	1.70	1.80	1.82	1.63	1.72	1.78	1.77	1.78	1.67	1.73	1.85	1.66

WIND DIRECTION AND FORCE.

OCTOBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.
1	SW 0-3	SW 0-3	SE 0-1	SW 0-1	NW 2	NW 3	NW 2	NW 1-2	NW 3-4	NW 3-4	NW 3-4	NW 2-4
2	SW 0-2	SSW 0-2	SW 0-2	SW 0-2	SW 3-4	SW 1-4	S 2-3	S 2-3	WSW 1-3	SW 1-3	SW 0-3	S 2-3
3	SSE 0	SE 1	SE 0	SE 0-1	SE 0	Calm 0	SE 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0
4	N 3-5	NE 3-4	N 4	N 3-4	N 3-4	N 3-4	N 3-4	N 3-4	N 5	N 3-4	N 5	N 5
5	NW 1	NW 1-2	NW 2	N 2	NW 3-4	NW 3-4	NW 3	NW 3	N 3	NW 3	NW 2	NW 2-3
6	NW 3-4	NNW 4	NW 3	NNW 3	N 3-4	NW 3-4	N 3-4	NW 3-4	NW 3	NW 3	NW 3-4	NW 3-4
7	NNW 2-3	NNW 2-3	NW 2-3	NNW 2	N 3	N 3	N 3-4	NW 2	NW 2	N 2	NW 2	NNW 2
8	NE 0	N 0-1	NE 1	NE 1-2	NE 2	NE 2	N 1	NE 1	N 1	N 1	Var.	NW 0
9	NE 1-2	NE 0-2	NNE 0-2	NE 1-3	NE 2	NE 2	N 2	NE 2	N 3	NE 1-2	NW 1-2	NW 0-1
10	Calm 0	Calm 0	Calm 0	Calm 0	N 1	NE 0-1	NE 0-1	NE 0-1	N 1	WNW 1-2	NW 0-1	NW 0
11	SE 1-2	SE 1-2	SE 0-1	S 0	SE 0-1	SE 1-2	E 1-2	E 1-2	E 1-2	SE 1-2	SE 2	SE 1
12	SW 0-3	SW 0	S 0-1	S 0	SW 0-2	SW 0-1	SW 0-1	SW 0-1	SW 0-1	SW 0-1	WSW 0-1	SW 0-1
13	Calm 0	Calm 0	NNW 1	W 0-1	W 1-2	NW 1-2	NW 1-2	NW 1-2	NW 1-2	NW 1-2	NW 2-3	N 2-3
14	SW 0	S 0-1	Var.	SW 0-2	SSW 2-3	SW 1-3	SW 1-3	SW 1-3	SW 1-3	SW 1-3	SW 1-3	W 1-3
15	WNW 1-2	NNW 2	NW 0	W 0	NW 1-2	W 2-3	NW 1-2	NW 1-2	NW 1-2	N 2-3	NW 3-4	NW 4-5
16	SE 0	E 0-2	SW 0-2	SW 1	SW 0-2	Calm 0	SW 0	Calm 0	Calm 0	Calm 0	SW 0	NW 0
17	W 0	NW 1	NW 1	NW 1	NW 1-2	NW 1	NW 2	NW 2	NW 2	NW 2	NW 3	NW 3
18	NNW 3-4	N 5	NW 4	NW 4	NW 5	NW 4-5	NW 4	NW 4	N 4	N 4	NW 4-5	NNW 4
19	W 0-2	Calm 0	NW 0	WNW 0	NW 0-1	NW 1-2	NW 1	NW 1-2	NW 1-2	NW 1-2	NW 1	NW 1
20	W 2-5	W 1-3	W 2-5	W 1-3	NW 2-3	W 1-2	NW 2-3	NW 2-3	NW 2-3	NW 3-4	NW 1-2	W 1-2
21	Calm 0	Var.	SW 0	Calm 0	S 0	SW 0-1	SW 0-1	S 0-1	SW 0-1	W 0-1	W 0-2	SW 1-2
22	NNW 2-3	NNW 3	NNW 4	NNW 4	NW 2-3	NW 2-3	NW 3-4	NNW 3-4	NW 3-4	NW 3-4	NW 4	NW 3
23	WNW 1	NW 1-2	NW 0-2	W 3-4	NW 3	W 2	NW 3	W 1-3	W 2-3	NW 1-2	NW 0	NW 1-2
24	NW 3-5	NW 4-6	NW 0-4	NW 3-4	W 3	NW 3	NW 3	W 3	NW 3	NW 3	NW 3	NW 2-3
25	NW 2-3	W 1-2	W 1-2	NW 2-3	NW 2	NW 2-3	W 2-3	NW 2-3	NW 2-3	NW 2-3	W 1-3	NW 1-2
26	NW 2-4	NW 1-4	W 0-2	WNW 2-3	WNW 1-2	W 1-2	WNW 2	N 1	NW 2-3	NW 1	SW 0-1	Calm 0
27	NNW 2-3	NNW 2-3	NW 2	NW 2	NW 1-2	NW 2	N 1-2	N 2	N 2-3	N 3	SW 3	NW 3
28	NW 1-3	NW 1-3	W 1-3	NW 3-4	NW 4-6	NW 2-3	N 2-3	NNW 3-4	NNW 3-4	NW 3-4	NW 3-4	NNW 3-4
29	NW 2-4	NW 3-4	NW 2-3	WNW 1-2	NW 1-3	NW 2-3	NW 1-3	NW 1-3	NW 1-3	NW 2-3	NW 3-4	NW 1-3
30	W 3	NW 0-1	NNW 4	W 2	NW 2-3	NW 3-4	NW 3-4	NW 4-6	W 4-6	W 4-6	S 2-4	W 3-4
31	NW 0-4	NW 0-4	NW 3	S 2	SW 1-2	NW 1-2	W 1-2	NW 1-2	NW 1-2	NW 1-2	NW 2-3	NW 2-3
Means	1.73	1.73	1.65	1.65	2.15	2.10	2.10	2.18	2.21	2.15	2.10	2.00

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Force.
1	NW 4	W 4	W 0-3	W 0-4	SW 4	SW 0-4	S 0-3	SW 0-5	SW 0-4	SW 0-4	SW 0-3	S 0-3	2.3
2	S 0-3	SE 0-2	SW 0-4	SW 0-4	S 1-2	SW 0-1	S 0-2	S 0-2	S 0-1	SSE 0-1	S 0-2	SE 0-1	1.5
3	Calm 0	N 1	NW 1-2	N 2-3	NNW 0	NW 2-3	NNW 0-1	NW 1	NW 1-2	N 1-3	N 3-4	N 3-4	0.9
4	NW 3-5	NW 3-4	NW 3-4	NW 2-4	NW 3-5	N 1-3	N 1-2	NW 1-2	N 0-1	NW 1	NW 1	NW 1-2	3.2
5	NW 4	N 3	N 3-4	NW 3-4	NW 3-4	NNW 4	NW 4-5	NW 3-4	NW 3-5	N 4	NW 4	NW 3-4	3.6
6	N 3	NW 2-3	NW 3-4	WNW 1-3	N 1	NW 2-3	NW 1-3	NW 1-2	NNW 1	NW 1-2	N 1-2	NNW 2-3	2.7
7	N 2	NW 3	NW 2	N 2-3	N 0-1	NW 1-2	NW 1	NNE 0-1	Var.	N 0-1	NE 0	NE 0-1	1.8
8	N 0-1	NE 0-1	N 0	N 0-1	NE 0-1	N 0-1	NE 0-1	N 0-1	N 1	N 0-1	Calm 0	Calm 0	0.6
9	NW 0-2	NW 0-1	N 0-1	Calm 0	Calm 0	SE 0-1	SE 0	SE 0	SE 0	SE 0	Calm 0	Calm 0	0.9
10	Calm 0	Calm 0	E 0	E 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	SE 1	SE 1	SE 1	0.4
11	SE 1-2	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0	SE 0-1	SE 0	SW 1-2	SW 0-2	SW 0-2	SW 0-2	0.9
12	SW 0-1	Calm 0	S 0	W 0-1	SE 0-1	SSE 0-1	SE 0-1	W 0-1	SW 0-1	W 0	NW 0	W 0	0.5
13	NW 2-3	NW 3	WNW 3	NW 1-2	NW 0-1	W 0	W 0-1	W 0	NW 0-1	W 0-2	NW 0-2	N 0-1	1.2
14	SW 1-3	SW 0-3	SW 1-3	W 1-2	SW 0-2	SW 0-3	W 1-2	SW 1-2	S 0-1	S 0	Calm 0	W 0	1.3
15	NW 4-5	WNW 4	WNW 2	NW 0-1	NW 4-6	SW 3-4	NW 2-4	W 0-3	W 0-2	W 0-2	W 2-3	W 0-3	2.2
16	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	NW 0-1	W 0	SW 0	SW 0	Calm 0	W 0	Calm 0	0.2
17	NW 2-3	N 2	N 2-3	NW 2-3	NW 3-4	NW 4	NW 3-4	NW 3-4	NW 3-4	NW 3-4	NW 4-5	NW 4	2.5
18	NW 3-4	NW 3-4	NW 2-4	NW 3	NW 2-3	NW 2	NW 1	NNW 0-1	SSW 0-1	SW 0-1	W 0-1	Calm 0	3.0
19	NNW 2-3	NW 1-2	NW 1-2	NW 2-3	NW 4-5	NW 5	W 4-5	NW 4-5	NW 1-3	NW 1-2	W 1-4	NW 1-4	1.9
20	NW 1-3	W 1-3	SW 0-2	W 0	S 0-1	S 0-2	SW 0	Var.	SSW 0-2	Var.	SE 0-1	SE 0-1	1.6
21	SW 0-3	W 0-1	W 1-2	W 1-2	W 0-2	NW 1-2	NW 2	WNW 1-2	SW 0-2	NW 0-2	NW 3-4	NW 0-2	0.9
22	NW 3-4	NW 3	NW 3-4	NW 4	NW 4	NW 2-4	NW 4	NW 3-4	NW 3-4	NNW 3-4	N 1	W 2-3	3.2
23	NW 4	NW 4	NW 5	NW 7-8	NW 8-9	NW 7-8	NW 5	NW 4-5	NW 4-5	NNW 4-5	NNW 4-6	NNW 0-3	3.5
24	NW 3	NW 2	NW 3-4	NW 2-3	SW 2-3	W 1-3	NW 2-3	NW 2-4	W 1-4	W 1-3	W 1-4	W 1-3	2.7
25	WNW 1-2	W 1-3	N 1-2	NW 3-4	NW 1-3	NW 2-4	NW 1-4	W 1-4	NW 1-3	NW 1-3	WNW 1-3	NW 1-3	2.1
26	SE 0	SE 0	NW 2-3	NW 3	NW 2-3	NW 3	NW 2-4	NW 2-3	NW 2-3	NW 1-3	WNW 2-4	W 1-3	2.5
27	NNW 3	W 3-5	W 1-3	NW 3-4	NW 3-5	NW 3-4	NW 1-2	WNW 2-3	NW 1-3	WNW 2-4	W 1-3	NW 1-3	2.5
28	NNW 3	NW 2-3	NW 3-4	NW 3	NW 4-5	NNW 3	NW 2-3	NW 3	NW 2-4	NW 3-4	NW 4	NW 3-4	3.2
29	NW 3-4	NW 3	NW 1-3	NW 3	NW 2-3	NW 2-4	NW 3	NW 3-4	NW 3	NW 2	NW 2-3	NW 3	2.7
30	W 1-6	W 1-4	WNW 3-6	WNW 4-6	NW 3-4	W 3-5	WNW 0-3	NW 2-6	NW 2-5	NW 0-4	W 0-2	Var.	0.2
31	N 2-3	NW 2-3	NW 2-3	NNW 2-3	NW 3-4	NNW 4-5	NW 4-6	NNW 6-7	NW 4-6	NW 4-6	NW 4-6	NW 4-6	3.0
Means	2.27	2.03	2.11	2.24	2.32	2.36	1.94	1.98	1.73	1.73	1.85	1.66	2.00

WIND DIRECTION AND FORCE.

NOVEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.
1	NNW 2-3	NW 3	NW 3-4	NNW 2-3	NW 2-3	NW 3-4	NW 2-3	NNW 2-3	NW 1-2	NW 1	N 0-1	NNW 0-2
2	SSE 3-4	SSE 3-5	SE 4-6	SE 2-3	S 0-2	SE 0-2	SE 0-1	SE 0-2	NE 2-3	SSE 1-3	SE 1-2	SE 0-2
3	WSW 0-1	NW 0-2	NW 0-2	W 1	N 0-2	NW 0-1	NW 1	NW 0-1	NW 0	N 0-1	NW 0-1	W 0-1
4	NW 2	NW 3	NW 3	NW 1-2	NW 2-3	NW 2	NW 1-2	NW 3	NW 3-4	NW 3-4	NW 3-4	NW 2-3
5	NW 1-5	NW 0-3	NW 2-3	W 1-4	NW 1-4	ESE 1-4	E 1-3	ESE 1-2	E 1-3	SE 1-3	SSE 1-3	SE 1-3
6	W 0-1	W 0-2	NW 0-2	NW 0-2	NW 0-1	NW 1	NNW 1	NNW 2-3	NNW 2	NNW 2-3	NNW 2	NNW 1-2
7	NW 0-2	WSW 0-2	WNW 0-1	WNW 0-2	WNW 0-2	WNW 0-3	NW 0-2	NW 0-2	WNW 0-2	Var. 0-1	NW 0-1	NW 0-2
8	E 0-1	NW 0-1	SSE 0-1	Calm 0	NNW 0-1	SE 0	N 0-1	NW 0-1	NW 1-2	NW 0-1	NW 0-1	Var. 0
9	WNW 1	N 0-1	ESE 0	SE 1-2	SE 0-1	SE 0-2	SE 0-1	N 0	N 0	N 0	NW 0-1	WNW 0-1
10	NNW 2	NNW 3	N 3	NW 3	NNW 2	NW 3	NW 2-3	NW 2-3	NW 2-3	NW 0-2	NW 0-3	NW 2-3
11	NW 0-2	NW 1-3	NNW 1-3	NNW 1-3	NW 1-2	W 1-2	NW 1-2	NNW 1	NW 1	WNW 0-2	NW 2	NW 2
12	NW 1	NW 1	NNW 1-2	NW 2	NW 1-2	NW 1	N 1	NNW 1	NW 3	NW 3	NW 3-4	NW 1-2
13	NW 3	NW 2-3	NW 1-2	WNW 3	WNW 1-2	W 1	W 1-2	WNW 0-3	NW 0-2	NNE 0-2	NW 2-3	WNW 2-3
14	NW 1-2	NW 3	NW 3	NW 2-3	WNW 4	NW 3	NW 4	WNW 3-4	NNW 4	NNW 3-4	NW 1-2	NNW 1-2
15	NW 1-3	SE 0-1	E 2	Calm 0	NW 0	SE 0-1	NE 0-1	SE 1-2	SE 1-2	SE 1-2	S 1-2	SSE 1-2
16	NNW 1-3	NW 3-4	NW 2-3	NW 1-2	NW 1-2	WNW 1-2	NW 3-4	WNW 1-2	NW 2	NW 3-4	NW 3-4	W 2-4
17	NW 1-3	NW 3-4	NW 2-3	NW 1-3	NNW 2	WNW 1-2	NW 3-4	NW 0-2	NW 1-2	WNW 1	NW 1	NW 0-1
18	SE 5	SE 4-5	SE 1-3	SE 2-3	SE 1-3	NE 1-3	SE 1-4	SE 1-3	SE 1-2	SE 1-4	SE 0-2	SE 0-3
19	NW 1	NW 1-2	NW 1-2	WNW 2-3	NW 1-2	W 0-1	WNW 1-2	SE 1-2	WNW 0-1	NW 0-1	NW 1-2	NW 1-2
20	NW 5	NW 4-5	NW 4	NW 4-5	WNW 2-3	WNW 3-4	NW 3	W 4-5	WNW 4	N 5	NW 3-4	NW 4-5
21	N 0-1	NW 0-1	NW 0-1	Calm 0	ESE 0	WNW 1-2	NW 1-2	WNW 0-1	NW 1-2	NW 1	WNW 2-3	NW 2-3
22	NW 2-3	NW 2-3	NW 2-3	NW 2-3	NNW 2	NW 1-2	NW 1-2	NW 2	NW 2	NW 0-1	NW 1-2	NW 2
23	NW 3-4	NW 2-4	NW 4	NW 2-3	NW 2-3	NW 3	NW 3-4	NW 3	NW 2-3	NNW 2	NNW 2-3	NW 2-3
24	NW 1-3	NW 1-2	NW 0-1	NW 1-2	NNW 1-2	NW 1-2	NW 1-2	NW 0-1	NW 0-1	N 0-1	NW 1-2	NW 0-1
25	NW 1-2	WNW 0-1	NW 1-2	W 1-2	NW 1-2	NW 1	NW 1-2	NW 1	NW 0-1	NW 0-1	Calm 0	Calm 0
26	SE 2-3	SE 2-3	SE 3	SE 2-3	SE 4	SE 3	SE 3-4	SE 3	SSE 2-3	SE 3	SE 2-3	SE 2-3
27	ESE 0	N 0	Calm 0	NW 0	SE 1	SE 0-1	SE 1	E 1-2	SE 0-1	E 0-1	Var. 0	NW 0-1
28	SE 0	SE 0	SE 0-1	SE 0	SE 0-1	SE 0-1	SE 0-1	SE 1	SE 0-1	SE 0-1	SE 1-2	SE 1-2
29	SE 1-2	SE 1-2	SE 1	SE 1	SE 1-2	SE 1-2	ESE 1	SE 0-1	SE 0-1	SE 0	SE 0	SE 0-1
30	SE 1	SE 1-2	SE 1-2	SSE 2	SE 2-3	SE 2-3	SE 2-3	SE 2-3	SE 2-3	SE 2-3	SE 2-3	SE 2-3
Means	1'87	1'93	1'88	1'68	1'63	1'62	1'78	1'65	1'67	1'57	1'63	1'58

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Force.
1	NE 1-2	NE 2-3	SE 2-4	SSE 4-6	SE 4-6	SE 4-7	SSE 6-8	SSE 5-9	SSE 4-6	SSE 5-7	SSE 4-5	SE 3-4	3'4
2	NW 0-3	NE 0-2	WSW 0-2	NW 0-2	N 0-3	NE 0-1	WNW 0-2	NNW 2-3	NNE 2-3	NW 0-3	NW 0-2	W 0-2	1'7
3	WNW 0	WNW 0-1	W 0-1	WNW 0-1	WNW 0-1	Calm 0	SW 0	NW 0-1	NW 1	WNW 1-2	NNW 1-2	NW 2-3	0'7
4	NW 3	NW 3	W 2-4	NW 3-4	NW 2-3	NW 3-4	NW 3-4	NW 2	NW 1-3	NW 2-4	NW 1-3	NW 1-5	2'7
5	S 1-2	SE 0-2	W 1-2	SE 0-1	SE 1	NW 1-3	SE 0-1	SE 0-1	NW 0-1	WNW 0-2	W 1-3	N 0-2	1'6
6	WNW 1-2	WNW 2	WNW 3	NW 2-3	NW 3	NW 2	NW 1-2	NW 1-2	NW 0-2	N 0-1	WNW 2-3	WSW 0-2	1'6
7	NW 0-1	NW 0-1	NW 0-1	W 0-1	SW 0-1	Calm 0	NW 0-1	WNW 0-1	Calm 0	NE 0-1	N 0-1	E 0-1	0'7
8	N 0-1	NNW 0-1	N 0	NW 0-1	NNW 0-1	NW 1	Calm 0	Calm 0	NW 0-1	NW 0-1	Calm 0	WNW 0-2	0'4
9	WNW 0-1	NNW 0-1	NW 0	NNW 0-1	NNW 0-1	NW 0-1	NW 1-2	NNW 1	NNW 1-2	NW 1-3	N 1-3	N 1-3	0'8
10	NW 0-3	NW 2-3	NW 2-4	NW 2-4	N 3	NW 0-1	WNW 1-3	WNW 1-3	NW 0-2	NW 1-3	NW 1-3	NNW 1-2	2'2
11	NW 3	NW 1	NW 1-2	NW 2	NW 1	NW 0-1	N 1-2	NNW 1-2	NW 0-1	NW 1-2	NNW 1	NW 2	1'5
12	NW 4	NW 3-4	NW 2-3	NW 1-3	NW 2	NW 2-3	W 1-2	WNW 2-3	NW 2-3	NW 0-1	NW 3-4	NW 3	2'1
13	NW 1-2	WNW 1-3	NW 2-5	W 1-3	NW 1-2	NW 0-3	WNW 2-3	NW 3	NW 1-3	NW 2	NW 1-3	NW 0-2	2'0
14	NW 1-2	NW 1-2	NW 0-1	NNW 0-1	NNE 0-1	NW 0	NW 1-2	W 0-2	W 0-3	NW 1-3	NW 0-1	NW 1-3	2'0
15	SE 3	SE 0-2	SE 2-3	SE 0-1	E 1-2	NNE 1-2	NW 0-1	NW 0-1	W 0-1	NNW 0-1	NW 0-1	NW 1-3	1'1
16	NW 2-3	NW 2-3	NW 2	NW 3	N 1-3	WNW 1-3	WNW 2-3	NW 4	NW 1-4	NW 3	NW 3-4	NW 1-2	2'5
17	NW 0-2	NW 0-3	NW 1-2	SW 1-2	WNW 1-4	NW 1-3	NW 1-2	NW 0-3	WNW 0-3	NW 0-1	NW 0-1	SE 0-1	1'7
18	NE 1-2	E 2	NNW 1-2	SE 1-2	NW 1-2	WNW 0-3	N 0-2	W 1-2	NW 0-2	NW 0-1	NW 1-3	NW 0-1	1'9
19	NW 2-3	WNW 3-4	NW 3-4	NW 2-3	NW 3-4	NW 3-4	WNW 1-2	NW 0-1	NW 3	NW 4	NW 3-4	NW 4-5	2'1
20	NW 3	NW 2	WNW 1	WNW 2-3	NW 1	WNW 0-2	NW 1-3	S 0	W 0	NNW 0-1	NW 0-1	NW 0-1	2'6
21	WNW 2	NW 1	NW 0-1	NNW 1-2	NNW 1-2	NNW 3	N 0-3	N 0-2	N 0-4	E 0-1	NW 0-3	NW 2-5	1'3
22	NW 2-3	NW 2-3	NW 2-3	NW 2-3	NW 0-1	NW 3	NW 2-3	NW 2-4	NW 3-4	NW 4	WNW 2-3	WNW 2-3	2'2
23	NW 3-4	NW 2-3	WNW 2-3	NW 1-2	NW 1-2	NW 1	NW 1	NW 1	NW 3-4	NW 1-2	NW 1-2	NW 1-2	2'4
24	NW 2	NW 0-2	NW 2-3	NW 1-2	NW 0-1	NW 1	NNW 0-1	NW 1	NW 1-2	NW 1-2	NW 0-1	NW 0	1'1
25	W 0	NW 0-1	Calm 0	SSE 0	SE 1	SE 1-2	SE 1-2	SE 2	SE 2	SE 3	SE 3	SE 3	1'2
26	SE 2	SE 1-2	SE 1	SE 1	SE 0-1	SE 0-1	SE 0-1	Calm 0	SE 0	NW 0-1	WNW 0-1	NW 1	1'8
27	WNW 0-2	NW 0-1	NW 0-1	NW 0-1	NW 1-2	WSW 1	NW 0-1	W 0-1	W 0-1	E 0-1	ENE 0	0	0'5
28	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 2	SE 1-2	SE 2-3	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	1'1
29	SE 0	SE 0-1	S 0-1	SSE 0-1	SSE 0	SE 0-1	SE 1	SE 1	SE 0-1	SE 0-1	SE 1	SE 1	0'7
30	SE 2-3	SE 2-3	SE 2	SE 2	SE 2	SE 2-3	SE 2-3	SE 1	SE 2-4	SE 2-4	SE 2-3	SE 3-4	2'2
Means	1'75	1'62	1'63	1'62	1'53	1'57	1'53	1'52	1'60	1'67	1'63	1'82	1'66

WIND DIRECTION AND FORCE.

DECEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.
1	SE 2-3	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2	SE 1-2
2	NW 0	NW 0-1	N 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1
3	NW 0	NW 0-1	N 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1
4	NW 0-1	NW 0-1	N 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1
5	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1
6	SSE 0	Calm 0	Calm 0	SSE 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0
7	NNE 0-1	SE 0	Calm 0	E 0	SSE 0	Calm 0	NW 0	NW 0	Calm 0	Calm 0	Calm 0	Calm 0
8	E 2-4	E 1-3	E 2-3	E 2-3	E 2-3	E 2-3	E 2-3	E 2-3	E 2-3	E 2-3	E 2-3	E 2-3
9	NW 1-3	N 1-3	NW 0-3	NE 1-3	SSE 1-2	SE 1-2	SE 1-2	SE 1-2	E 1-2	E 1-2	E 1-2	E 1-2
10	ESE 3	ESE 3-4	SE 3-4	SE 3-4	SE 3-4	SE 3-4	SE 2-3	SE 2-3	SE 2-3	SE 2-3	SE 2-3	SE 2-3
11	S 0	SE 0	Calm 0	Calm 0	Calm 0	Calm 0	NW 0	NW 0	Calm 0	Calm 0	N 0-1	NNW 0-1
12	SE 0-1	SE 0-1	ESE 1	ESE 1	ESE 1	ESE 1	Calm 0	Calm 0	SE 0	Var. 0	Calm 0	W 0
13	NW 2	NW 2	NW 1-3	NW 0-2	NW 1-4	NW 1-4	E 2-3	E 2-3	E 2-3	E 2-3	E 2-3	SE 1-2
14	SE 1	ESE 0-1	ESE 0-1	SE 0-1	ESE 0-1	ESE 0-1	E 0-1	NNW 2-3	NNE 1-2	NW 2-4	NW 2-4	NW 2-4
15	NW 1	NW 1-2	NW 2	NW 2-3	WNW 1-2	WNW 0-1	WNW 1-2	N 2	N 2	NW 2	NW 2	NW 2
16	NW 1-2	NW 1	NW 0-1	NW 0-1	NW 0-2	NW 1-2	NW 2-3	NW 2-3	NW 2-3	NW 2-3	NW 2-3	NW 2-3
17	E 1-3	WSW 1	WSW 0-1	NW 0-1	WNW 0-2	WNW 0-2	W 1-2	WNW 3-4	W 1-3	W 0-2	WNW 0-2	WNW 1-3
18	WNW 3	NW 3-4	NW 2-3	NW 1-2	NW 2	NW 2-3	NW 2-3	NW 2-3	NW 2-3	NW 1-2	NW 1-2	WNW 1-2
19	NW 0-1	NW 0-2	NW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 0-1	WNW 1	NW 1	WNW 2
20	NW 3	NW 3-4	NW 3-4	NW 2-3	NW 2-3	NW 2-3	NW 2-3	NW 2-3	NW 2-3	NW 2-3	NW 1-2	NW 2-3
21	NE 0-1	E 1-2	E 1-2	E 1-2	E 0-2	SE 1-3	SE 0-1	SE 1-2	WNW 0-1	NW 1-2	NNW 1-2	NW 1-3
22	NW 2-3	NW 2-4	WNW 1	WNW 2-3	NW 2-3	NW 3	NW 3-4	NW 3-4	NW 4-5	NW 3-4	NW 4-5	NW 4-5
23	NW 4-5	NW 1-2	NW 1-2	WNW 1-2	NW 2-3	NW 3	NW 3-4	NW 3	NW 3-4	NW 3	NW 3	NW 2-3
24	NW 2	NW 2-3	NW 2	NW 2-3	WNW 3-4	NW 3	NW 2-3	NW 1-2	NW 1-2	NW 1-2	NW 1-2	NW 2-3
25	NW 0-3	WNW 0-3	W 0-3	NW 0-3	NW 1-3	NW 0-2	NW 0-2	WNW 2	NW 1-2	WNW 1	NW 1-2	NW 0-2
26	WSW 0-2	WNW 0-1	WNW 0	WNW 0	W 0	WNW 0	W 0	WNW 0-1	W 0	W 0	W 0	W 0-1
27	NW 0-1	NW 0-1	NW 0-1	WNW 0-1	WNW 0-1	WNW 0-1	WNW 0-1	WNW 0-1	WNW 0-1	WNW 0	WNW 0	WNW 0
28	SE 0-1	SE 0-1	SE 0-1	Calm 0	SE 0-1	ESE 0	Calm 0	Calm 0	Calm 0	NNW 0	W 0	W 0
29	NW 0-1	NW 0-1	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	SW 0	SSE 1	SE 1	SE 0-1	SE 1
30	NW 0-1	NW 0	NW 0-1	W 0	NW 0-1	W 0-1	WNW 0-2	NNW 0-1	NW 0	NW 0	NW 0-2	N 0-2
31	NW 2-3	NW 3	NW 3-4	NW 2-3	NW 2-3	NW 2-3	NW 2-4	NW 3-4	NW 3-4	NW 2-4	NW 2-3	NW 2-4
Means	1.42	1.35	1.16	1.08	1.23	1.23	1.26	1.44	1.32	1.27	1.24	1.32

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Force.
1	SE 0	NE 0-1	E 0	NE 0-1	E 0-2	SE 1-2	S 0-1	SE 1-2	S 0-1	SE 1-2	SE 0-1	NW 0-1	1.0
2	E 0	E 0	NW 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	N 0	N 0	NNW 0-1	0.2
3	NW 1	NW 1	NW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 0	NW 0	NW 0	NW 1	NW 1	NW 1	0.6
4	SE 1	SSE 1	SSE 1	SE 1	SE 1	SE 1-2	ESE 1-2	SE 1-2	SE 1-2	SE 0-1	SE 0-1	SSE 0-1	0.8
5	SE 0-1	SE 1	SE 0-1	SE 1	SE 1	SE 0-1	SE 0-1	SE 0-1	SSE 0-1	SE 0	SE 0	SSE 0	0.7
6	SE 0	SE 0	Calm 0	Calm 0	Calm 0	NW 0	Calm 0	Calm 0	NE 0-1	N 0	N 0	NNE 0	0.0
7	NW 1-4	NW 1-3	N 0-4	NW 0-3	SE 0-2	SE 0-2	NE 2-3	NE 2-3	E 2-4	ENE 2-4	ENE 2-3	NE 2-4	1.6
8	Calm 0	SE 0-1	E 2-3	Var. 0-2	NW 0-3	ENE 0-2	NW 2	WNW 1-3	W 1-3	WNW 0-3	ENE 0-3	NE 0-1	1.4
9	E 1-2	E 1-3	E 2-4	E 2-3	ENE 3-4	E 3-4	ESE 1-2	SE 1-2	ESE 1-3	SE 3-4	SE 3	ESE 2-4	2.1
10	SE 1-2	SE 3	SE 3	SE 1-2	SE 1-2	SE 1	SE 1-2	SE 1-2	SE 0-1	SE 0-1	SE 0	SE 0	2.0
11	WNW 0	SE 0	SE 0	SE 0	SE 0	SE 1	SE 0-1	SE 0-1	SE 0-1	SE 1	SE 1	SE 0-1	0.2
12	NW 1-2	NNW 0-1	NW 0	SE 0	SE 0-1	WNW 0	NNW 0	NE 0	Calm 0	NW 0-1	NW 1-2	NW 1-2	0.4
13	SE 2-3	SE 3	SE 3-4	SE 2-3	SE 2	SE 2-3	SE 3	SE 2-3	SE 1-3	SE 2	SSE 1-2	SE 1-2	2.3
14	WNW 0-1	NW 0-1	NW 0-1	WNW 0-1	NW 0-1	NW 0-1	WNW 1-2	WNW 0-2	NW 2-3	NW 1	NW 1	NW 1	0.9
15	NW 1-2	NW 1-2	NW 1	NW 0-1	NW 1-2	NNW 2-3	NW 2-3	NNW 4-5	NW 4-5	NW 2-4	NW 2-3	NW 1-2	2.0
16	WNW 1	NW 0-2	WNW 2-3	NW 3-4	NW 2-5	SE 2-4	SE 1-5	SE 3-4	E 1-2	E 1-5	E 1-3	E 0-3	2.0
17	NW 1-3	WNW 0-2	NW 2-3	NW 2	NW 2	W 2-3	NW 1-2	NW 2-3	WNW 2-3	NW 1	NW 1	WNW 2-3	1.7
18	NW 1-2	NW 1-2	NW 1-2	NW 1	NW 1-2	NW 1-2	WNW 1-2	NW 1-2	NW 1	NW 0-1	NW 0-1	NW 0-2	1.7
19	NW 1-2	NW 1-2	NW 0-1	NW 1-2	NW 0-1	NW 1-2	NW 1	NW 1	N 1	NW 1-2	NW 2-3	NW 3-4	1.1
20	NW 1	NW 0	Calm 0	NW 0-1	Calm 0	ESE 0-1	SW 0-1	NW 0-1	Var. 0-1	SE 0	NE 0	NW 0-1	1.4
21	NW 1-3	NW 0-3	NW 1-4	NW 2-3	NW 3-4	NW 1-3	NW 1-2	NW 2-3	NW 3	NW 2-3	NW 1-3	NW 1-4	1.8
22	NW 4-5	NW 4-5	NW 4-5	NW 4-5	NW 4-5	NW 4-5	NW 4-5	NW 3-4	NW 3-4	WNW 2-3	NW 3	NW 5	3.7
23	NW 2-4	WNW 1-2	NW 1-2	NW 1-2	NW 2-3	NW 2	NW 2	NW 2-3	NW 2-3	NW 1-3	NW 3	NW 1-2	2.4
24	NW 1-2	WNW 2	NW 1-2	W 0-1	NW 1	NW 1-2	W 0-1	NW 0-2	NW 0-2	NW 0-2	WNW 0-1	NW 0	1.6
25	NW 2	WNW 2-3	NW 0-2	W 1-2	WNW 0-1	NW 1-2	Calm 0	NW 0-2	WNW 0-2	WNW 0-2	WNW 0-1	WNW 0-1	1.2
26	NW 0-1	NW 0-1	WNW 0	WNW 0-1	WN 0-1	W 0-1	WNW 0-1	WNW 0-1	NW 0	NW 0-1	NW 0-1	NW 0-1	0.3
27	WNW 0	WNW 0	W 0	W 0	W 0	Calm 0	Calm 0	E 0	E 0	E 0	SE 0-1	SE 0-1	0.2
28	W 0	NW 0	WNW 0-1	WNW 0-1	NW 0-1	NW 1	NW 0-1	NNW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 1	0.3
29	SE 1	SE 0-1	SSE 0	SSE 0	SSE 0	WNW 0	WNW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 1	NW 0-1	0.4
30	NW 0	WNW 0	W 0-1	W 0-1	W 0-1	W 0	Calm 0	Calm 0	NW 0	NW 0-1	NW 1-2	NW 2-3	0.5
31	NW 3-4	NW 3-4	NW 1-2	NW 2	NNW 2	NW 1-2	NW 3-4	NW 3-4	NW 3	NW 2-3	NW 3	NW 3-4	2.9
Means	1.26	1.23	1.22	1.15	1.24	1.31	1.24	1.40	1.35	1.27	1.27	1.35	1.27

WIND DIRECTION AND FORCE.

JANUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.
1	WNW 3	NW 3-4	NW 2-5	WNW 3-5	NW 2-4	WNW 2-4	WNW 1-3	W 1-3	W 1-3	SSE 0-3	E 1-2	NE 0-3
2	Calm 0	NE 0-1	N 0-1	SE 0-2	SE 0-1	Var. 0-1	SE 0-1	NE 0	SE 1	SE 0	SE 0-1	SSE 0-1
3	ESE 0-1	ESE 1-2	ESE 2-3	SE 2	SE 2	SE 3	SE 3	SE 3-4	SE 4	SE 4-5	SE 5	SE 4-5
4	SE 3	SE 3	SE 1-2	SE 2	SE 1-2	SE 1	SE 1-2	SE 1	SE 1	SE 1	SE 0-1	SE 0-1
5	NW 0	NW 0-1	NW 0-1	NW 0	NW 0-1	NW 0-1	NW 0-1	NW 1	NW 1	NW 1	NW 0-1	NW 1
6	NW 1	NW 1-2	E 0	Calm 0	SE 1	SE 0	SE 1	SE 1	E 0-2	WNW 0	E 0-1	SE 1
7	NNW 0	E 1	ESE 0-1	E 0-1	Calm 0	N 0	NW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 0-1
8	NW 1-2	NW 0-1	NW 1-3	NNE 0-2	ESE 0-2	SE 0-2	SE 0-1	E 0-1	NNW 0-1	E 1	NW 0-1	Calm 0
9	NW 1	WNW 1-3	W 0-3	NW 0-3	NW 1	NW 1-2	NW 0-3	WNW 1	NW 1-2	NW 1-3	W 0-3	NW 1-4
10	Calm 0	Calm 0	Calm 0	SSE 0-1	SSE 1	SW 0-1	SSW 1-2	SE 1-3	E 0-1	SE 0	SW 0-1	WSW 0
11	NW 1	NW 1-2	NW 1	NW 1	NW 3	NW 2-4	WNW 1-3	WNW 2-4	NW 1-3	WNW 0-2	WNW 1-2	NW 1-2
12	NW 0-1	NW 0-1	NW 0-1	NW 0-1	WNW 0	NW 0-1	Calm 0	WNW 1-2	WNW 1	WNW 0-2	NW 0-1	WNW 1-2
13	WNW 0-1	WNW 0-1	NW 0-1	WNW 1	NNW 0	N 1	N 0-1	NW 0-1	W 1	NW 0	N 0-1	SE 2-3
14	NW 0	NW 0	NW 0	WNW 0	NW 0-1	Calm 0	SE 1	SE 1-2	SE 0-1	SE 0-1	SSE 1	SSE 0-1
15	SE 0	SE 0	ESE 0	SE 0-1	SSE 0-1	SE 1-2	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0
16	Var. 0	Calm 0	Calm 0	NE 0	N 0	E 0-1	ESE 0-1	Calm 0	WSW 0	NW 0	W 0	Calm 0
17	WNW 1-2	Calm 0	Calm 0	NW 0	NW 0-1	NW 1	NW 1-2	SE 1-2	SE 2	NW 0	NW 0-1	NW 2-3
18	WNW 1-4	NE 0-2	NW 1-2	N 0-1	NW 0-1	NW 1	NW 0-1	NW 1	NW 0-1	NW 0-1	N 0-1	Var. 0
19	SE 1-2	S 1-2	S 1-2	S 1-2	SSE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 0-1	Calm 0	SE 0
20	NNW 2	NW 2-3	NW 3-4	NW 3-4	NW 2-3	NW 2-3	NW 2-3	N 2	NW 1-2	NW 1	NW 0-1	NW 1
21	NW 3	NW 1-2	NW 1-2	N 0-1	NW 0-1	NW 0-1	NW 0-1	NW 1-2	NW 0-1	NW 2	NW 1-2	NNW 2
22	SE 0-1	E 1	SE 0-1	SE 0-1	SE 0-1	ESE 1	SE 1-2	SE 2	SE 1-2	SE 1-2	E 1-2	SE 1
23	E 2-3	ESE 1-2	N 0-2	NNW 0-1	NW 1-2	NW 0-1	NW 0-1	NW 1-2	SE 1	E 0-1	N 0-1	SE 1
24	SSE 0-1	NW 0-2	SE 0-1	N 0-2	N 0-2	N 0-2	N 0-3	N 0-3	N 0-3	NW 0-4	NW 0-2	NW 1-3
25	NW 1-3	NW 3	NW 2-3	WNW 1	NW 1	NW 0-1	W 0-1	NW 0-1	W 1-2	WNW 0-1	WNW 1	NW 1-2
26	NW 0-1	NW 0-1	NW 0-1	Var. 0-2	N 0-1	NW 1-2	Var. 0-2	SE 0-1	SE 0-1	W 1-2	SE 1-2	ESE 1-2
27	ESE 0-1	NW 1-2	NW 1-2	NNW 1	NW 0-1	NW 0-1	NNW 0-1	NW 1-2	N 1-2	N 1	Calm 0	SE 1
28	SE 1-3	SE 2-3	SE 1-3	SE 1-3	SE 2-4	SE 1-5	SE 1-3	SSE 0-2	N 1-2	NW 3	SE 1-2	E 1-4
29	SE 0-1	NW 0-1	SE 0-1	SE 0-1	SE 0-1	ESE 0-2	SE 0-1	SSE 0-1	ESE 1	SE 0-1	E 1	SE 0-1
30	Calm 0	Calm 0	NW 0	Calm 0	NW 0	SE 0	NE 0-1	ESE 0-1	E 1-2	E 0-2	E 1-2	E 1
31	SE 1-2	SE 1-2	SSE 1-2	SE 1-2	SE 1-2	SSE 1-2	SE 1-2	SE 1-2	SE 2	SE 1-2	SE 1-2	SE 2
Means	0.77	1.16	1.07	1.02	0.98	1.08	1.05	1.10	1.13	1.03	0.79	1.18

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Force.
1	E 0-2	SE 1-2	SE 0-1	SSE 0	E 0-1	NE 0	E 0	NW 0	NW 0-1	NW 0-1	NE 0	NW 0-1	1.5
2	SE 1	SE 1-2	SE 1-2	E 1	SE 0-1	ESE 0-1	SE 0-1	SE 0-1	SE 0-1	SE 1	SE 1-2	SE 0-1	0.7
3	SE 5	SE 4-5	SE 4-5	SE 4-5	SE 3-4	SE 4	SE 4	SE 4	SE 2-3	SE 3-4	SE 3	SE 3	3.4
4	SE 0-1	SE 0	Calm 0	SE 0	NNW 0	Calm 0	NW 0	Calm 0	Calm 0	Calm 0	Calm 0	NNW 0	0.8
5	NW 1	NW 1-2	NW 0-1	NW 1	NW 2	NW 1	NW 0-1	NW 0	NNW 0-1	WNW 0	NW 0-1	NW 1	0.7
6	SE 1	SE 2-3	NE 0-1	SE 1-2	SE 1-2	SE 1	NE 1	SE 1-2	SE 0-1	E 0-1	SE 0-2	SE 0-1	0.9
7	WNW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 0-1	NW 1	NW 1-2	NNW 2-3	WNW 3	0.7
8	Calm 0	Calm 0	NNW 0-1	NW 0-1	NW 1-2	NW 2-3	NW 2	NW 2	N 1-2	NW 2	NW 2-3	NW 3	1.2
9	WNW 1-2	NW 2-3	NW 1-2	NW 1-3	NW 1-2	WNW 0-1	WNW 1	WNW 1-2	WNW 0-1	Calm 0	WNW 0-1	WNW 0-1	1.3
10	WSW 0-1	WNW 1-2	WNW 0-2	WNW 1	NW 1-2	WNW 0-3	WNW 2	NW 1-4	WNW 2-3	WNW 2-3	WNW 2-3	NW 2	1.1
11	WNW 2-3	WNW 2	W 2-3	W 0-1	WSW 0	NW 0-1	NW 0-1	NW 1-2	WNW 1	NW 0-1	NW 0-2	NW 0-1	1.4
12	WNW 0-2	NW 0-2	NW 1-3	NNW 0-2	WNW 0-2	NW 0-1	NE 0-1	NE 0-1	W 1-2	WNW 0	WNW 0-1	WNW 0	0.7
13	SSE 2-3	SE 0-2	SE 1-2	SSE 1-2	SSE 0-1	SE 0	Calm 0	E 0	Calm 0	Calm 0	SE 0	NW 0	0.6
14	SE 0-1	SE 1	SE 1-2	SE 1-2	SE 2	SE 1	SE 0-1	SE 0-1	SE 0-1	SE 0	SE 0	SE 0	0.6
15	Calm 0	ESE 0	SE 0-1	SE 0-1	SE 0	ESE 0	Calm 0	ESE 0	ESE 0	Calm 0	Calm 0	WNW 0	0.2
16	WNW 0	W 1-2	W 1	NW 1-2	NW 0-1	N 0	Calm 0	NW 0	NW 0	Calm 0	NW 0	NW 0-1	0.2
17	NW 2-3	WNW 3	NW 2-3	NW 0-3	NW 1-3	NW 0-3	NW 2	N 0-1	WNW 0-2	E 0-2	Var. 0-1	WNW 0-2	1.2
18	ESE 1	E 1-2	NE 0-1	ESE 0-1	NNE 1	NNW 0	NW 0	SE 0-1	SE 0-1	SSE 1-2	SE 1-2	SE 1-2	0.8
19	NW 0-1	NW 1	NE 0-1	NW 1-2	NW 1-2	NW 1-2	NW 1	NW 1-2	NNW 1-2	NNW 1-2	NW 0-1	NNW 0-1	0.9
20	NW 1-2	NW 2	NW 1-2	NW 0-1	NW 1-2	NW 1-2	NW 1-2	NW 1-2	NNW 1-2	NW 3	NW 2-3	NW 2	1.9
21	NW 2	NW 1	NW 1	NW 0	NW 0-1	WSW 1	Calm 0	N 0-1	E 0-1	Calm 0	SE 0	SE 0	0.9
22	SE 1-2	SE 0-1	E 0-2	SE 0-1	NE 1	ESE 1	E 1	ESE 1-2	E 0-1	ESE 1	ESE 1	SE 1-2	1.1
23	ESE 1-2	SE 0-1	E 1	E 1-2	NNE 2	NE 0-2	E 1	ESE 1-2	SE 2-3	E 1-2	ESE 0-2	SE 1	1.2
24	NW 1-3	WNW 1-4	NW 1-4	WNW 1-3	NW 2-4	NW 1-2	WNW 1-2	WNW 1-2	WNW 1-2	NW 1	NW 2-3	NW 1-2	1.6
25	WNW 0-2	W 2	WNW 2	WNW 1-2	W 0-3	NW 0-1	NW 0-1	NW 1	NW 1-2	NW 1-2	NW 1-3	NW 0-2	1.3
26	E 0-3	NNE 0-1	NW 0-1	W 0-1	WNW 0-1	NE 0-1	SE 0-2	SE 1-2	N 0-1	Var. 0-1	WNW 0-3	N 0-2	0.8
27	SSE 1	SSE 1	SE 0-1	SSE 0-1	SSE 0-2	SE 1-2	SE 1-2	SE 1-2	SSE 2-3	SE 2-3	SE 1-2	SE 1-2	1.1
28	E 1-2	SE 1-2	SSE 2	SSE 1-2	SE 1-2	E 1-2	E 1	NNE 1-2	SE 1-2	SE 2-3	SE 1-2	SE 0	1.8
29	SE 0-1	SE 0	E 1-2	E 0-1	WNW 1-2	E 1-2	E 0	E 0-1	E 0	N 0	SE 0	Calm 0	0.6
30	E 0-1	ESE 0-1	NE 1	E 0-1	E 1	E 1-2	SE 1-2	SE 1	ESE 1-2	ESE 1-2	ESE 2	ESE 2	0.9
31	SE 2-3	SE 2-3	SE 2-3	SE 1-2	SE 0-1	E 0	NW 0-1	WNW 0	Calm 0	Calm 0	N 1-2	NNW 1-2	1.3
Means	1.23	1.40	1.29	1.20	1.13	0.92	0.84	0.97	1.11	0.98	1.13	1.16	1.08

WIND DIRECTION AND FORCE.

FEBRUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.
1	NW 2	NW 3-4	NW 3	NW 3-4	NW 3-4	NW 3-4	NW 4-5	NW 1	NW 0-1	W 0-1	ESE 1	SE 0-1
2	NW 0	WNW 0	N 0	NNW 0	NW 0-1	NW 1	NW 1	WNW 0-1	Calm 0	NW 0	Calm 0	SE 0
3	NW 3	NW 3	NW 3	NW 3	NW 3	NW 3	NW 3	NW 3	NW 3	NNW 3	NW 3-4	NW 3
4	NW 1-2	NW 0-1	NW 0-1	SE 1-2	E 1	NW 2	NW 1-3	NW 1-2	NW 2	NW 1-2	NW 1-2	NW 1-2
5	NW 2-3	NW 2-3	NW 2	WNW 2-4	NW 1-2	NW 2	NW 2	NW 3-4	NW 3-4	NW 3-4	WNW 2-3	NW 2-3
6	NW 1-2	W 2	WNW 1	NW 1-2	NW 2	NW 2	NW 1-2	NW 2-3	NW 1-2	NW 2	NW 2	NW 2
7	WNW 1	WNW 2-3	WNW 1-4	WNW 1-2	NW 2	NW 1	NW 0-1	NW 1-2	NW 0	Calm 0	SSE 0-1	SSE 1
8	NW 0-1	NW 1	WNW 0-1	WNW 0-1	Calm 0	SW 0	NW 0	NW 1	NW 1-2	NW 0-1	WNW 0-1	WNW 0-1
9	NW 2-3	NW 2	NW 2	NW 1-2	NW 0-2	SW 1-2	NW 1-3	NW 2-3	WNW 2-3	WNW 1-2	WNW 1-3	NW 2
10	SE 1	SE 1-2	E 0-2	E 0-1	N 0-1	N 0-1	N 0	NW 0	N 0-1	NW 0-1	NNW 1-2	NNW 3
11	NW 0-1	WNW 0-2	NW 0-2	Var. 0-2	NW 0-2	WNW 0-2	NW 0-1	WNW 1-2	NW 1	WNW 1-2	NW 2	NNW 2-3
12	NW 1-2	NW 1-2	NW 1-3	NW 1-3	W 0-1	W 0-2	NW 1-2	NNW 1	NW 2	N 1-2	N 1-2	NW 1-2
13	NW 0-2	WNW 1-2	WNW 1-4	W 0-4	W 0-1	WNW 0-2	N 0-2	NW 2-3	NW 0-2	NNE 1-2	SE 1-2	SE 1-2
14	SE 1-2	ESE 2-4	E 3	SE 3-4	ESE 2-3	SE 2-4	SE 3-4	SE 2-4	SE 3-4	SE 4-5	SE 4	SE 2-3
15	SE 2	SE 2-3	ESE 1-3	SE 2	SE 2-3	SE 3-4	SE 3-5	SE 3-4	SE 4	SE 3-4	SE 3	SE 4
16	WNW 0-1	NW 0-1	NNW 0-1	NNW 0-1	NW 0-1	NW 0-1	NW 1	NW 3	NW 2-3	NW 2	NW 2-3	N 2-3
17	WNW 1-3	NW 1-3	NNW 1-3	NNW 1-2	NW 1	NW 1	NNW 0-1	NW 0-1	Calm 0	N 0	NW 0-1	Calm 0
18	NW 0-1	NW 0-1	NW 1	N 1-2	NW 0-1	NW 1	NW 1-2	NW 1-2	WNW 2-3	NW 2-3	NW 2	NW 2-3
19	NW 0-1	NW 1-2	NW 0-1	NW 0-1	NW 1	NW 1	NW 1	NW 1	NW 1-2	NW 1-2	NNW 1	NW 1
20	NNW 2-3	NW 4	NW 3-4	NW 3-4	NW 3	NW 1-2	NW 2	NW 4-5	NW 3	NW 2-3	WNW 4-5	NW 2
21	SSW 1-3	S 1-3	SW 1-4	W 1-4	NW 1	WSW 1-3	W 1-3	W 1-3	N 1-2	NNE 1-2	NE 2-3	NE 1-4
Means	1.43	1.83	1.74	1.76	1.38	1.57	1.67	1.93	1.79	1.67	1.90	1.83

	13	14	15	16	17	18	19	20	21	22	23	Midnight.	Mean.
	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Dir'n. Force.	Force.
1	NNW 0	E 0-1	E 1	E 0-1	SE 1	SE 1-2	E 0-1	SE 1	SE 0-1	ESE 0-1	N 0	NE 0-1	1.4
2	NW 0	WNW 0-1	W 0-2	NW 0-1	W 1-3	WSW 0-1	WNW 0-1	W 0-1	NW 0-1	N 0	NW 0	NW 1-2	0.5
3	NW 3-4	NW 2-3	NW 3	NW 3-4	NW 2-4	NW 2-3	NW 3	NNW 2	NNW 2-3	NW 3-4	NW 2	NW 2	2.9
4	WNW 1-2	NW 2	NW 3	WNW 2	NNW 2-3	NW 2-3	NW 1-2	NW 2	NW 1-3	NW 1-3	WNW 2-3	WNW 1-2	1.8
5	W 1-3	NW 1-2	WNW 2-3	WNW 1-3	NW 1-3	WNW 1-2	WNW 1	WNW 2	WNW 1-2	WNW 1	NNW 1-2	NW 2	2.2
6	NW 1-2	NW 2-3	WNW 2-3	NW 2-3	NW 2-3	WNW 2-3	WNW 2-3	WNW 2	WNW 1-2	WNW 0-1	WNW 2-3	WNW 2-3	2.0
7	SSE 1	SSE 1-2	ESE 1	NE 0-1	WNW 0-1	WNW 0-1	W 1	NW 1	NW 2-3	NW 0-1	NW 1-2	WNW 0-1	1.1
8	NW 0-1	Calm 0	WNW 0-1	WNW 1	NW 1	WNW 2-3	WNW 3	NW 2-3	NW 4-5	NW 4-5	NW 2-3	NW 1-2	1.3
9	NW 2-4	NW 1-3	NW 1-4	NW 1-3	NW 3	W 1-2	NW 0-1	NW 0-1	NNW 0-2	NNW 0-4	NNW 0-4	SE 0-1	1.8
10	NW 2-3	NW 2	NNW 1	NNW 1-2	NNW 1-2	NW 1	NW 0	Calm 0	NW 3	Var. 1	NNW 1	NNW 0-2	1.1
11	NW 2	W 1-2	NW 2-3	NW 2-3	WNW 1-3	WNW 2-3	NW 2	NW 2	NW 2	NW 1-2	NW 1-2	WNW 1	1.6
12	WNW 2	NW 2-3	NW 2-3	NW 0-2	WNW 1-3	W 2	NW 1-3	N 0-1	NW 2-4	NW 0-4	NW 0-4	NW 0-1	1.6
13	N 0-4	SE 2-3	ESE 4	E 1-4	E 1-4	ENE 3-4	ENE 2	SE 0-2	SE 1-3	SE 1-4	ESE 1-3	ESE 1-3	1.9
14	SSE 2-3	ESE 2-3	SE 1-2	SSE 1-2	SE 1-2	S 3	S 3-4	SE 3-4	SE 3-4	SE 3-4	SE 2	SE 2	2.8
15	SE 3-4	ESE 2-3	SE 1-2	SE 1-2	SE 1-2	SSE 2-3	ESE 0	NE 0-1	E 0-1	NNE 0-1	N 0-1	NW 1	2.2
16	NW 0-1	NW 0-1	NW 1-2	W 0-1	W 0-1	W 1	NW 0-1	NW 0-2	NW 0-1	NNW 1-3	NW 1-3	N 1-3	1.2
17	NW 1-2	NW 1-2	W 1-2	NW 0-1	NW 1-2	WNW 1-2	NW 0-1	NNW 0-1	Calm 0	W 0-1	W 1	NNW 0	0.9
18	NW 4	WNW 4	ESE 3	WNW 2-3	NW 1	WNW 1-2	NW 1-2	NW 1	NNW 2-3	NW 0-2	NW 0-1	NW 1	1.7
19	NW 1-2	NW 3-4	NW 1-2	NNW 3	NW 3	NNW 3-4	NW 4-5	NW 5	N 3-4	NW 4-5	NW 3-4	W 3	2.2
20	N 1-4	W 5-6	NW 3-4	NNW 0-2	NW 1-3	NW 1-2	NW 2-3	SW 1-3	NNE 0-1	W 1-3	W 1-3	SW 1-3	2.6
21	NE 1	N 4	NW 3-4	NW 3-4	NW 1-2	N 1	N 0-1	WSW 1-2	N 0-1	N 1-2	N 0-1	N 0-1	1.8
Means	1.74	2.17	2.12	1.71	1.81	1.90	1.57	1.52	1.81	1.76	1.67	1.34	1.74

CLOUD.

AMOUNT OF CLOUD.

APRIL 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	8	10	10	8	6	10	8	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	9.5
2	10	10	10	10	10	10	10	8	6	8	2	4	10	10	10	10	10	10	10	10	10	10	10	10	9.1
3	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	1	8	6	8	1	8.9
4	0	0	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	1	10	0	0	7.5
5	0	0	3	6	8	2	1	3	4	8	9	10	10	10	10	9	10	10	10	10	10	10	10	10	7.2
6	10	1	0	4	8	5	6	9	10	10	10	10	10	10	10	9	10	7	10	10	10	9	10	10	8.2
7	10	10	10	5	3	8	8	10	10	8	10	10	9	9	10	9	10	10	10	10	10	10	9	10	9.1
8	1	0	0	10	1	3	4	9	9	9	4	8	10	10	10	10	10	10	9	9	3	0	0	2	5.9
9	7	0	0	0	10	10	10	10	10	4	9	5	4	7	9	10	10	10	10	9	10	10	10	8	7.6
10	2	9	10	0	8	0	3	4	1	8	9	10	10	10	10	9	6	8	10	10	9	1	3	4	6.4
11	2	1	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.2
12	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
13	10	10	6	8	10	10	6	9	10	10	9	9	10	9	10	10	10	10	10	10	10	10	10	10	9.4
14	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
15	10	10	8	10	10	10	9	7	3	10	6	7	10	10	10	10	10	8	10	9	10	10	10	10	8.7
16	10	10	10	10	10	10	10	10	10	10	10	2	8	8	9	9	10	10	10	3	0	1	7	8.2	
17	8	5	5	3	8	9	8	10	10	10	10	10	10	10	10	8	9	10	6	6	4	0	0	10	7.5
18	10	3	3	2	3	10	7	10	10	10	10	10	10	10	10	10	10	10	10	8	7	10	10	10	8.1
19	10	10	10	7	9	9	9	10	10	5	10	9	9	8	8	5	8	2	0	0	0	0	5	7	6.7
20	8	9	10	10	10	10	8	8	8	8	1	2	0	4	8	10	10	10	10	10	10	10	10	10	8.1
21	10	10	10	10	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.9
22	10	10	10	10	6	10	10	10	10	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.8
23	10	10	10	10	10	10	10	10	10	10	10	6	6	6	6	6	2	0	0	10	2	10	10	10	7.7
24	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	7	3	1	2	9	8.8
25	0	0	0	10	10	10	9	10	10	10	9	8	9	9	10	10	10	3	1	2	0	10	10	10	7.1
26	10	10	10	10	10	4	4	3	10	10	10	10	6	10	10	10	9	10	0	10	10	10	10	10	8.6
27	5	1	0	10	10	10	10	10	6	3	1	7	10	10	10	10	10	1	0	0	10	9	0	3	6.1
28	10	0	0	0	0	0	0	0	0	1	3	9	7	7	10	10	7	9	10	10	10	10	10	10	5.5
29	9	8	10	10	10	10	9	8	1	0	0	0	0	1	5	6	10	10	10	10	10	10	8	10	6.9
30	10	10	0	0	0	9	9	10	9	10	10	10	10	10	10	10	9	0	8	10	10	10	10	10	8.1
Means	7.7	6.6	6.4	7.4	7.9	8.0	7.9	8.4	8.5	8.2	8.1	8.3	8.6	8.9	9.5	9.2	9.4	8.3	8.1	8.4	7.7	7.8	7.5	8.4	8.1

CLOUD.

AMOUNT OF CLOUD.

MAY 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	10	10	10	10	10	10	10	10	7	9	9	10	10	9	5	6	10	10	1	0	0	0	0	10	7.3
2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
3	10	10	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.8
4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
5	10	10	10	10	10	10	10	10	10	9	1	2	1	10	10	10	10	10	10	10	10	10	10	10	8.9
6	10	10	10	10	10	10	10	10	10	9	8	10	10	9	9	10	10	10	10	4	1	0	0	0	8.3
7	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4
8	4	0	0	0	0	0	2	5	9	9	3	4	8	3	3	6	7	9	8	9	10	10	10	10	5.4
9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	5	5	4	3	9.0
12	3	4	5	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	8	9	1.4
13	0	0	3	1	1	0	4	4	3	2	2	1	0	4	0	0	0	0	0	1	0	1	0	1	1.2
14	3	8	8	10	9	4	1	2	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	8.5
15	10	10	10	10	10	10	10	10	10	8	9	9	7	3	10	3	1	1	1	2	1	6	2	1	6.4
16	2	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	9	9	1.6
17	3	2	0	2	4	10	10	10	10	10	10	10	10	10	10	10	10	8	10	10	10	10	10	10	8.3
18	10	10	10	9	10	10	10	10	10	10	1	2	1	0	3	8	10	10	10	10	10	10	10	10	8.1
19	10	10	8	10	10	8	10	10	10	8	5	9	10	10	10	10	10	10	10	10	10	10	10	10	9.5
20	10	10	10	10	10	10	10	10	10	7	6	9	10	9	10	10	10	10	1	0	3	8	10	10	8.5
21	10	10	10	9	7	2	9	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.4
22	10	10	10	10	4	2	6	10	9	9	10	8	9	5	5	6	2	1	10	10	10	10	10	10	7.8
23	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	4	9.5
24	8	10	0	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	1	9	8	2	6	3	8.2
25	6	7	2	10	10	10	10	10	10	10	10	10	10	10	9	9	7	0	0	0	0	5	8	10	7.2
26	10	10	10	10	5	10	10	10	10	10	10	5	2	2	2	0	0	0	0	0	0	0	0	0	4.8
27	0	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	9.5
28	0	5	0	0	4	0	10	10	10	8	6	8	6	10	8	8	8	10	10	10	10	10	10	10	7.1
29	9	3	3	10	10	10	10	10	10	10	10	9	10	8	10	10	10	9	8	10	10	8	10	10	9.0
30	10	10	10	10	10	10	10	10	10	10	7	3	4	8	4	6	5	4	3	9	7	9	10	10	7.9
31	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
Means	7.4	7.8	7.1	7.6	7.5	7.3	8.1	8.4	8.6	8.3	7.3	7.4	7.5	7.3	7.5	7.4	7.4	7.1	6.7	6.9	6.7	7.3	7.6	7.8	7.5

CLOUD.

AMOUNT OF CLOUD.

JUNE 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	10	10	10	10	10	10	10	10	10	10	10	7	3	9	10	10	10	10	10	10	10	10	10	10	9.5
2	10	10	10	10	10	10	10	10	7	1	1	1	3	10	10	10	10	10	10	10	10	5	2	0	7.5
3	0	7	9	0	2	10	10	10	10	10	10	9	7	8	9	3	8	0	1	9	8	10	10	10	7.1
4	4	0	0	8	9	0	0	1	1	9	10	9	10	4	9	4	10	10	10	10	10	10	10	10	6.6
5	10	5	0	0	0	0	0	0	0	0	4	2	9	0	2	0	0	3	3	3	0	0	6	10	2.5
6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
7	10	10	10	10	10	3	0	5	8	4	4	1	1	0	1	0	0	0	0	0	0	0	0	0	3.2
8	0	0	10	10	10	10	10	3	7	2	9	10	9	10	10	10	10	10	10	10	10	10	10	10	8.3
9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	5	9.7
10	0	0	0	0	3	0	0	9	9	10	9	5	8	10	10	10	10	10	10	10	10	8	8	10	6.6
11	9	8	5	5	9	9	9	10	10	10	10	10	10	10	10	10	3	8	10	8	3	5	9	10	8.3
12	8	9	0	6	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.2
13	10	10	10	10	9	10	10	10	9	8	2	1	1	6	10	10	10	10	9	9	10	10	10	10	8.5
14	2	1	4	10	8	8	9	7	10	10	7	4	1	0	0	0	0	0	10	10	10	10	10	10	5.9
15	10	10	10	10	10	10	0	7	9	7	3	2	5	3	4	1	0	0	0	0	0	0	3	4	4.5
16	2	4	6	10	10	7	10	10	10	10	7	3	0	0	1	0	0	0	0	0	0	0	10	10	4.6
17	10	10	10	10	10	9	8	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.9
18	0	0	0	0	0	0	0	0	0	0	1	3	1	0	0	0	0	10	10	0	0	0	0	0	1.0
19	0	0	0	0	0	0	0	0	0	1	0	0	0	10	10	10	10	10	7	0	0	0	0	0	2.4
20	0	0	0	1	10	9	1	0	0	1	2	4	1	0	0	0	0	0	0	0	0	0	0	0	1.2
21	0	0	0	0	0	0	0	1	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3
22	0	0	0	0	0	0	4	10	3	2	5	6	10	10	10	10	10	10	8	8	10	10	10	0	5.7
23	0	0	0	0	0	0	0	0	0	4	4	5	7	5	1	10	10	10	10	3	10	10	10	10	4.5
24	0	0	10	5	4	5	9	10	10	10	10	10	10	10	8	10	10	10	10	10	10	10	10	10	8.4
25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
26	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
27	10	10	10	10	0	0	0	9	9	9	7	5	9	10	4	9	10	10	10	10	10	10	10	10	7.8
28	10	10	0	10	10	5	6	10	10	10	10	8	10	10	10	10	10	10	10	10	10	10	10	10	9.1
29	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10.0
30	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	9.6
Means	5.8	5.8	5.8	6.5	6.7	6.2	5.9	6.9	7.2	7.0	6.9	6.1	6.5	6.7	7.0	6.9	7.0	7.4	7.6	7.2	6.8	6.9	7.6	7.0	6.7

CLOUD.

AMOUNT OF CLOUD.

JULY 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	0	0	0	2	3	10	10	10	10	10	10	10	10	10	7	10	1	0	1	0	0	0	1	10	5.2
2	10	10	0	0	0	0	0	0	0	1	2	3	1	4	6	9	10	10	10	10	10	10	10	10	5.2
3	10	10	10	10	10	10	10	10	10	10	5	7	10	8	5	2	4	2	7	10	10	10	10	10	8.0
4	5	3	0	0	0	10	10	10	10	10	10	10	10	8	9	9	10	10	8	10	9	9	8	9	7.8
5	1	1	0	0	0	0	0	1	10	10	10	10	10	10	10	10	10	10	8	10	10	10	10	10	6.7
6	7	7	9	10	10	10	8	9	0	1	1	1	1	2	3	9	9	10	10	10	10	10	10	8	6.9
7	9	8	10	10	10	10	10	10	10	10	9	10	10	7	10	7	9	10	10	10	10	10	10	10	9.7
8	10	10	10	10	10	10	10	10	10	10	10	10	8	2	1	0	0	0	3	2	0	0	0	1	5.7
9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	7	10	10	9.9
10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	8	8	7	6	10	10	9.5
11	9	8	7	9	8	4	6	3	8	10	10	10	10	10	8	10	2	8	10	10	10	10	10	10	8.3
12	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	9	9	10	10	10	10	10	9.9
13	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	2	2	9.3
14	6	6	9	10	10	8	10	8	4	10	10	10	10	10	10	9	10	10	1	1	1	3	1	2	7.0
15	10	10	10	10	10	10	9	1	10	10	9	10	9	1	10	10	10	10	10	10	10	10	10	10	9.1
16	10	10	10	10	10	10	6	10	10	10	8	10	10	10	8	8	1	0	0	6	5	5	4	10	7.5
17	10	10	9	10	9	8	3	0	0	0	0	0	0	0	0	0	2	6	10	10	10	10	10	10	5.3
18	10	8	3	10	3	9	10	10	9	10	10	10	10	10	5	10	10	8	10	2	2	10	10	10	8.3
19	10	10	10	10	10	10	10	10	10	10	8	9	10	10	10	10	10	10	10	10	10	10	10	10	9.9
20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
21	10	10	10	10	10	10	10	3	1	3	3	0	0	0	0	1	1	3	0	10	10	10	10	10	5.6
22	10	10	10	10	7	0	10	1	1	1	6	6	1	3	5	9	10	10	10	10	10	10	10	10	7.1
23	10	10	10	10	10	10	10	10	10	10	10	10	10	3	3	3	3	0	0	0	0	4	7	7	6.7
24	7	0	0	0	1	4	10	10	10	10	10	10	10	7	10	10	10	0	0	0	0	0	10	10	5.8
25	10	0	0	0	0	2	8	8	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	7.8
26	10	10	10	10	3	2	10	9	2	5	6	10	10	8	8	9	10	1	1	0	2	2	9	4	6.3
27	0	5	6	10	10	10	10	10	10	10	10	6	8	8	0	0	0	0	10	10	10	10	4	0	6.5
28	0	0	0	0	0	0	0	9	10	10	10	10	7	8	6	9	7	0	8	10	1	0	0	0	4.4
29	0	10	10	4	2	10	10	10	10	10	10	6	10	9	10	6	5	1	1	1	0	0	2	0	5.7
30	0	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.5
31	10	10	7	10	10	10	9	9	9	10	9	10	10	10	10	10	10	10	9	9	10	7	6	8	9.2
Means	7.6	7.6	7.1	7.6	7.0	7.6	8.4	7.8	7.9	8.4	8.3	8.3	8.2	7.4	7.1	7.8	7.2	6.4	6.9	7.4	7.0	7.2	7.5	7.5	7.5

CLOUD.

AMOUNT OF CLOUD.

AUGUST 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	7	10	10	10	10	10	1	1	1	0	0	0	0	0	10	10	10	10	10	10	3	1	2	0	5.2
2	0	1	10	10	10	0	1	0	0	0	0	0	0	0	0	0	0	0	9	10	9	9	10	10	3.7
3	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	5	9	3	9	9.4
4	10	8	8	1	0	0	4	9	1	1	1	2	5	6	8	10	10	10	10	10	10	10	10	10	6.4
5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
7	10	10	5	2	1	1	10	10	10	10	10	10	10	10	10	10	10	9	7	6	1	2	4	1	7.0
8	1	1	7	5	5	0	1	1	1	1	2	5	2	4	6	8	1	1	1	1	7	10	10	10	3.8
9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	1	10	10	10	10	10	10	9.6
12	10	10	10	10	10	10	9	6	0	0	3	4	4	0	5	2	10	3	0	0	5	4	4	2	5.0
13	10	10	9	3	1	5	8	5	7	10	10	7	5	3	2	2	0	0	4	10	7	10	10	6	5.7
14	9	10	10	10	10	8	6	9	10	7	5	8	10	10	10	10	10	10	10	10	10	10	10	10	9.2
15	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
16	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10.0
17	10	10	10	10	10	10	10	10	9	10	9	10	10	10	10	10	10	10	10	10	10	8	4	0	9.2
18	10	10	10	3	10	10	10	10	10	10	9	9	9	9	9	10	10	10	10	10	10	10	10	10	9.5
19	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
20	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
21	10	10	4	0	0	2	6	2	3	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1.6
22	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.8
23	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	6	9.8
24	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	10	10	10	10	9.9
25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	6	10	10	10	10	4	3	10	10	9.2
26	10	10	10	10	10	8	6	2	3	3	2	1	1	0	0	0	0	6	0	0	1	0	0	10	3.9
27	3	0	0	6	10	10	10	10	10	10	10	10	10	10	8	10	10	10	3	3	7	2	1	1	7.0
28	0	4	6	6	10	10	10	10	10	10	10	10	10	10	9	10	10	10	5	10	8	9	9	9	8.5
29	10	10	10	10	10	10	10	10	10	10	10	6	10	10	9	8	9	8	10	4	10	10	10	5	9.1
30	5	6	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.5
31	10	10	10	10	2	9	10	10	10	10	8	10	10	10	10	8	10	10	10	10	10	10	10	10	9.5
Means	8.4	8.7	8.9	8.4	8.4	8.1	8.5	8.2	7.9	7.8	7.7	7.8	7.9	7.8	8.0	8.2	8.5	8.0	7.9	8.0	8.1	7.9	8.0	7.7	8.1

CLOUD.

AMOUNT OF CLOUD.

SEPTEMBER 1905.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.	
1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	2	0	0	0	0	0	0	0	6.8	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
3	0	0	0	0	0	0	0	4	9	6	2	6	6	10	5	1	9	8	6	6	2	10	3	2	4.4	
4	1	1	1	3	2	1	1	0	0	0	0	0	0	0	5	6	1	0	0	10	10	10	10	7	2.9	
5	9	8	3	2	0	3	7	10	10	10	6	8	5	5	3	2	8	9	10	10	10	9	10	10	7.0	
6	7	7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	2	9.6	
7	8	10	10	7	9	10	9	10	8	7	9	10	10	9	4	1	1	0	1	1	1	1	0	0	5.6	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	4	0	0.3	
9	1	0	1	2	2	3	3	8	10	10	10	10	10	10	10	10	10	10	10	8	10	10	10	10	7.4	
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	9	7	10	10	10	10	10	10	9.8	
11	10	10	10	7	7	8	2	1	1	4	9	10	10	10	10	10	10	10	10	10	10	10	4	3	7.8	
12	9	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.7	
13	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10.0	
14	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	3	2	3	10	9.0	
15	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	0	1	1	0	8.0
16	0	0	0	0	8	8	9	10	2	2	7	10	10	10	9	8	10	10	10	10	3	2	10	7	6.5	
17	0	0	0	10	9	9	9	9	8	9	6	7	9	5	2	1	3	2	0	0	0	10	3	2	4.7	
18	10	10	10	10	10	10	10	10	8	9	8	10	10	10	10	10	10	10	10	10	10	10	10	10	9.8	
19	10	10	10	10	8	3	8	6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.4	
20	10	10	10	10	10	2	0	0	0	0	0	0	0	2	0	0	1	2	0	0	0	0	0	0	2.4	
21	0	0	0	0	0	3	2	2	4	2	4	2	5	7	8	8	6	2	6	0	5	3	1	1	3.0	
22	1	0	1	5	4	9	8	5	5	6	8	9	3	2	2	6	8	9	1	0	0	3	9	10	4.8	
23	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	0	9.2	
24	0	0	0	0	0	1	1	3	5	3	5	3	3	1	4	6	10	10	10	10	10	10	10	10	4.8	
25	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10.0	
26	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0	
27	6	3	10	3	2	1	1	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	8.0	
28	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0	
29	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	10	10	10	10	10	10	10	10	10	9.9	
30	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	4	10	10	10	10	10	10	9.8	
Means	6.4	6.2	6.5	6.6	6.7	6.7	6.8	7.4	7.3	7.2	7.5	7.8	7.8	7.6	7.3	7.2	7.5	7.3	7.1	6.8	6.5	7.1	6.5	6.1	7.0	

CLOUD.

AMOUNT OF CLOUD.

OCTOBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	10	2	0	7	10	10	10	10	10	10	10	10	7	5	7	10	6	10	10	10	10	10	10	10	8.5
2	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	8	10	8	10	10	9.8
3	0	0	0	0	6	7	8	8	1	0	0	0	0	0	0	3	7	7	10	8	10	10	10	10	4.4
4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
5	10	10	10	10	10	10	10	10	10	10	9	8	10	10	10	10	10	10	10	10	10	10	10	10	9.9
6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
8	10	10	10	10	10	10	10	10	10	10	10	10	10	8	10	9	10	10	10	10	10	10	10	10	10.0
9	10	10	10	10	10	10	10	9	8	10	10	10	8	7	8	10	10	10	10	10	10	10	10	10	9.5
10	10	10	10	10	10	10	10	8	4	7	8	7	10	9	10	10	10	10	10	10	10	10	10	9	9.2
11	10	10	2	10	10	10	7	6	10	9	10	10	10	9	10	10	10	10	10	10	10	10	10	10	9.3
12	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	4	4	10	10	10	9.5
13	10	9	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.9
14	10	10	10	10	10	10	10	10	10	9	9	10	10	10	10	8	8	9	9	2	2	0	1	0	7.8
15	0	0	1	10	9	10	10	9	10	8	10	5	10	10	8	1	6	5	10	9	1	0	0	0	5.9
16	0	0	2	0	0	1	1	0	0	0	2	6	10	10	10	10	9	8	10	10	10	10	10	10	5.4
17	3	8	7	9	10	9	10	10	10	8	10	5	10	10	10	10	9	10	10	10	10	10	10	10	9.1
18	10	3	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	8	3	0	0	8.2
19	0	0	0	0	0	0	0	0	10	5	2	9	8	10	9	10	10	10	8	8	10	3	6	7	5.2
20	2	1	0	1	0	3	6	6	10	6	10	8	10	10	9	6	9	10	2	2	0	0	0	0	4.6
21	0	0	9	2	4	4	2	0	1	2	4	3	1	4	10	8	9	10	3	3	2	0	1	4	3.6
22	10	8	10	8	8	8	10	8	10	7	10	10	10	10	10	10	10	10	10	10	10	10	10	8	9.0
23	10	8	10	10	10	10	10	10	10	8	10	9	9	10	10	10	10	10	10	10	10	10	10	3	9.5
24	0	7	9	9	8	9	3	3	9	9	10	10	10	10	10	10	3	9	10	10	10	10	9	4	8.0
25	10	10	10	10	10	10	9	10	10	10	10	8	10	10	10	10	9	10	10	10	10	10	10	10	9.8
26	4	10	8	10	9	10	10	9	9	8	4	7	10	8	3	9	8	6	10	10	10	8	10	10	8.3
27	10	10	10	10	10	9	8	5	9	9	10	10	10	10	10	9	9	10	8	10	6	4	6	5	8.6
28	10	10	10	10	6	7	7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.6
29	10	10	10	10	10	9	9	5	7	7	10	10	10	10	10	10	10	10	10	10	10	8	9	9	9.3
30	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	10	9	7	5	6	9.4
31	9	10	10	10	10	10	10	9	2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.8
Means	7.4	7.3	7.5	8.3	8.3	8.6	8.4	7.9	8.4	8.2	8.6	8.6	9.1	9.0	9.1	9.1	9.1	9.5	9.3	8.8	8.5	7.6	7.9	7.6	8.4

CLOUD.

AMOUNT OF CLOUD.

NOVEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
2	8	7	3	9	9	9	4	3	3	6	5	2	7	7	9	10	10	10	10	10	10	10	10	10	7.4
3	10	10	9	10	10	10	10	9	8	8	3	2	0	2	3	2	0	1	2	1	1	9	10	10	5.8
4	10	10	10	10	8	10	10	9	6	7	10	10	9	10	5	10	10	10	9	9	10	10	10	10	9.2
5	10	10	10	10	10	10	10	10	10	10	5	5	9	7	2	0	2	0	0	0	0	5	8	6	6.0
6	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
7	7	9	3	10	10	10	9	8	4	5	4	4	9	9	5	3	4	2	0	1	9	9	10	10	6.4
8	10	9	10	10	9	9	4	8	2	3	6	9	9	7	3	0	0	0	1	0	0	0	0	0	4.5
9	1	0	9	10	10	10	10	10	9	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	8.7
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	10	10	10	9.9
11	9	7	7	7	10	9	6	7	10	10	10	10	9	6	10	2	1	1	6	10	10	10	10	10	7.8
12	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	9	9	9	8	7	9.6
13	8	5	7	10	10	10	8	10	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	2	9.0
14	4	10	6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.6
15	10	10	10	10	10	10	10	10	10	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	9.9
16	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	7	9	3	4	4	2	3	3	3	7.8
17	7	4	3	2	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.0
18	10	10	10	10	10	10	10	10	10	10	10	10	9	7	9	10	10	9	7	1	4	5	9	5	8.5
19	4	1	5	10	10	10	10	10	5	8	3	5	10	10	10	10	10	10	10	10	10	10	10	10	8.4
20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	6	5	1	1	0	0	10	10	10	8.0
21	4	0	0	0	7	9	10	7	8	10	10	10	10	10	6	10	10	10	10	10	10	10	10	10	8.0
22	10	10	10	10	10	10	10	10	6	7	6	7	4	9	10	10	10	10	10	10	10	10	10	10	9.1
23	10	10	3	3	2	1	2	3	4	3	5	4	6	1	0	1	6	7	9	10	10	10	10	10	5.4
24	10	10	5	5	10	10	10	10	10	9	7	10	7	4	4	3	2	3	3	3	1	1	0	0	5.7
25	1	9	10	10	10	10	10	9	10	10	10	10	10	10	3	9	10	10	10	10	10	10	10	10	9.2
26	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
27	10	10	10	10	10	10	9	10	10	8	9	10	10	10	10	10	10	10	10	10	10	10	10	10	9.8
28	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
29	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
30	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10.0
Means	8.4	8.4	8.0	8.8	9.5	9.6	9.1	9.1	8.5	8.7	8.3	8.5	8.9	8.6	8.3	7.7	7.9	7.6	7.8	7.6	7.5	8.5	8.8	8.3	8.4

CLOUD.

AMOUNT OF CLOUD.

DECEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid-night.	Mean.
1	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
2	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
3	10	10	8	5	9	9	5	9	5	10	9	10	10	7	10	9	9	10	9	9	9	8	5	8	8.4
4	8	10	10	10	7	3	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.5
5	10	10	10	10	10	10	10	10	10	9	10	10	10	8	5	8	9	10	10	9	10	10	10	10	9.5
6	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	9	10	10	10	3	1	9.2
7	3	10	9	9	10	10	10	10	10	10	7	7	8	10	10	10	10	10	10	10	10	10	10	10	9.3
8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
12	10	10	10	10	10	10	10	10	10	10	10	2	9	7	10	10	9	10	10	10	10	10	10	10	9.5
13	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
14	10	10	10	10	10	10	10	10	10	10	10	6	4	8	9	10	9	10	9	10	10	10	10	10	9.4
15	9	10	10	10	3	3	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.3
16	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
17	10	10	9	5	5	6	4	10	10	8	10	10	4	5	2	4	4	4	5	7	7	6	6	7	6.6
18	10	10	10	10	10	10	10	10	10	7	1	1	1	2	2	6	6	10	10	10	10	10	10	10	7.4
19	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
21	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10.0
22	10	9	8	5	6	6	10	10	10	10	10	10	10	10	10	10	9	8	4	5	1	10	10	10	8.4
23	10	10	10	4	3	3	9	3	8	8	6	8	8	10	9	10	9	10	7	9	10	10	10	10	8.1
24	10	10	10	10	9	10	10	10	10	10	9	10	10	10	10	10	9	10	10	10	10	10	10	10	9.9
25	10	10	9	10	10	9	6	9	4	7	3	6	10	10	10	10	10	10	10	7	10	10	8	9	8.6
26	9	9	9	9	8	8	7	6	0	0	1	2	7	9	10	9	10	10	10	10	10	10	10	10	7.6
27	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
28	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	9.9
29	10	10	10	10	10	10	10	10	10	10	10	10	8	9	10	10	10	10	10	10	10	10	10	10	9.9
30	10	10	10	10	9	7	10	9	8	5	5	4	2	4	8	5	10	10	10	10	10	10	10	10	8.1
31	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10.0
Means	9.7	9.9	9.7	9.3	9.1	9.0	8.9	9.6	9.2	9.2	8.7	8.6	8.7	8.9	9.1	9.4	9.3	9.6	9.5	9.6	9.6	9.8	9.4	9.5	9.3

CLOUD.

AMOUNT OF CLOUD.

JANUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid-night.	Mean.	
1	6	6	8	5	2	10	10	10	10	10	10	10	7	10	8	10	9	8	10	10	10	10	10	10	10	8.7
2	10	10	10	2	4	9	10	10	9	3	2	9	5	10	10	10	10	10	10	10	10	10	10	10	10	8.5
3	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
4	10	10	10	10	10	10	8	5	6	6	5	6	9	9	9	3	6	7	6	2	2	2	2	3	6.5	
5	4	10	10	10	10	10	10	6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.6
6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	5	10	10	10	10	10	10	9.8
7	10	10	10	10	10	5	7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.7
8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
9	10	7	5	6	6	7	2	0	1	2	6	6	9	3	10	10	10	10	10	10	10	10	10	10	10	7.1
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	10	10	10	10	8	10	10	10	10	10	9.8
11	10	10	10	10	10	9	10	10	10	10	10	10	10	9	10	10	10	10	7	9	10	10	10	10	10	9.8
12	10	10	3	9	8	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	6	9.4	
13	8	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
14	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
15	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
16	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	5	8	10	10	10	10	10	10	10	10	9.7
17	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10.0
18	10	10	10	10	10	10	8	6	7	8	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	9.5
19	10	10	10	10	10	10	10	10	10	10	10	10	10	9	8	9	10	10	10	10	10	10	10	10	10	9.8
20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
21	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
22	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
23	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
24	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	8	8	8	9.8	
25	10	10	10	10	10	10	10	10	7	9	10	10	10	7	9	9	10	10	10	10	10	10	10	10	10	9.6
26	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
27	7	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.8
28	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
29	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
30	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
31	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	8	1	3	10	10	10	10	9.2
Means	9.5	9.7	9.6	9.4	9.4	9.6	9.5	9.3	9.4	9.3	9.5	9.7	9.7	9.5	9.8	9.6	9.7	9.8	9.5	9.4	9.5	9.8	9.7	9.6	9.6	9.6

CLOUD.

AMOUNT OF CLOUD.

FEBRUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	1	7	10	5	10	10	10	8.8
3	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
4	10	10	10	10	10	10	10	10	10	10	10	10	9	10	9	10	10	10	10	9	10	10	10	10	9.9
5	10	10	10	10	10	9	10	10	5	9	10	9	9	9	9	10	10	10	9	9	5	7	10	10	9.1
6	10	10	10	10	10	10	9	7	10	10	10	10	10	10	9	9	9	8	9	9	10	10	8	10	9.5
7	10	10	9	6	8	6	1	10	10	10	10	10	10	10	7	5	3	2	8	10	10	10	10	3	7.8
8	10	7	6	5	4	8	10	10	10	10	2	10	10	10	8	1	9	9	10	10	10	10	10	10	8.3
9	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
10	10	6	9	4	7	8	6	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.1
11	9	10	10	10	10	9	10	10	10	10	10	10	10	9	10	10	9	10	10	10	10	10	10	10	9.8
12	10	9	4	2	8	6	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9.0
13	10	10	10	10	10	9	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10	10	9.9
14	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
15	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	7	9.9
16	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
17	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10.0
18	10	5	4	7	7	10	10	10	10	10	10	10	10	10	10	10	9	8	6	5	0	0	0	0	7.1
19	0	0	3	8	7	8	5	9	10	6	2	1	3	10	10	10	10	10	10	10	10	10	10	10	7.2
20	10	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	6	9	10	10	10	10	10	9.5
21	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	8	10	8	3	8	9.3
Means	9.5	8.6	8.8	8.7	9.0	9.2	9.0	9.7	9.8	9.8	9.2	9.5	9.6	9.5	9.6	9.2	9.3	8.7	9.4	9.5	9.0	9.3	9.1	9.0	9.3

ANEMOMETER.

MILES PER HOUR.

JUNE 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid-night.	Mean.
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	19.3	18.8	17.1	24.7	21.9	30.4	27.6	15.9	3.8	6.0	18.0	10.8	20.7	27.3	22.6	23.8	16.8	15.2	12.3	12.4	13.9	7.4	5.1	8.6	16.7
4	10.7	8.0	7.1	5.1	5.5	2.1	3.2	3.9	3.0	3.0	4.1	6.9	8.0	6.3	8.0	7.8	9.3	9.5	9.6	10.4	10.6	7.5	6.8	10.1	6.9
5	8.8	9.3	11.9	10.3	7.8	4.7	3.2	2.7	2.5	2.2	2.7	4.8	3.2	5.7	2.9	0.9	0.9	1.8	11.9	7.8	8.5	10.9	15.8	19.0	6.7
6	22.5	22.5	19.0	25.3	21.6	14.1	13.9	15.2	17.2	22.1	28.3	24.3	20.1	15.4	10.8	24.1	14.9	9.0	7.4	3.9	0.1	0.2	0.2	0.1	14.7
7	0.9	10.7	16.5	37.1	32.8	19.2	15.8	18.3	9.0	7.6	8.8	8.1	9.8	8.4	6.1	4.4	2.8	3.2	1.9	3.4	2.3	2.4	3.6	4.3	9.9
8	0.4	2.0	0.2	0.6	1.5	0.2	4.7	6.5	17.6	14.9	16.7	14.9	15.3	13.3	15.4	17.6	16.9	17.3	21.5	17.1	19.1	20.8	19.8	23.6	12.4
9	23.7	25.0	19.9	18.9	4.2	12.0	15.8	11.7	15.2	26.4	0.5	0.6	0.1	3.2	4.9	9.7	10.8	9.2	11.4	12.3	9.9	11.7	9.0	14.1	11.7
10	11.6	8.4	10.2	10.2	8.0	4.1	1.1	2.9	1.5	0.3	11.1	17.5	16.0	14.5	33.0	35.1	32.4	23.9	18.0	13.6	16.9	15.2	11.8	9.0	13.6
11	11.6	18.3	15.5	22.0	12.6	11.4	2.5	2.9	8.6	10.7	15.1	17.9	21.6	14.0	15.6	10.9	1.3	0.0	3.0	3.3	2.3	1.0	3.3	7.7	9.6
12	7.1	6.9	7.4	13.0	10.6	15.5	16.4	21.2	22.6	26.2	29.0	19.5	23.8	32.7	31.0	51.9	34.3	39.1	31.2	32.3	27.5	25.6	21.0	23.8	23.7
13	20.9	15.0	19.6	14.4	10.2	4.2	11.5	14.0	16.9	24.1	14.4	14.1	13.2	11.8	12.0	9.3	10.5	8.2	13.5	12.5	11.7	8.7	6.6	0.1	12.4
14	3.7	11.8	24.0	17.3	35.6	41.8	36.5	38.1	34.8	25.6	7.4	6.6	3.2	3.6	3.1	2.0	2.0	3.0	0.7	1.4	8.7	34.7	21.0	28.8	16.5
15	23.3	15.9	19.4	17.6	5.4	19.3	25.1	22.3	14.7	14.3	15.4	14.2	10.1	11.1	8.5	8.4	18.9	9.7	6.3	6.5	3.6	4.1	0.4	32.2	13.6
16	8.8	26.4	30.2	27.7	29.7	22.2	18.8	19.5	8.8	10.5	12.5	12.5	14.5	14.4	2.5	9.9	9.0	6.0	6.7	8.3	10.4	7.9	8.4	8.8	13.9
17	8.4	11.0	6.8	5.2	8.2	6.7	3.8	1.8	3.5	6.7	5.8	30.5	24.9	23.7	33.5	28.2	22.4	26.1	36.1	40.3	39.6	20.7	10.5	16.7	17.5
18	15.2	14.7	11.2	9.5	7.4	9.3	5.2	3.3	8.8	6.2	6.8	10.0	10.0	6.9	9.9	9.9	12.5	15.9	17.9	14.2	15.8	18.2	13.5	15.0	11.1
19	11.8	10.0	8.0	14.0	17.0	26.0	26.0	21.0	19.0	19.0	16.8	14.1	13.1	12.3	11.0	9.5	6.6	6.7	9.9	14.4	13.0	11.3	10.5	8.5	13.7
20	9.0	10.3	7.2	12.6	0.2	4.8	5.4	4.0	5.7	3.9	6.2	8.5	7.9	9.1	8.7	9.1	12.1	12.1	14.2	16.8	19.1	18.0	14.4	12.8	9.7
21	7.5	8.4	10.0	10.6	9.3	4.0	12.6	8.2	9.1	13.7	16.3	15.3	15.6	16.5	14.6	9.9	9.3	11.7	11.1	13.0	13.9	12.3	14.5	12.6	11.7
22	11.6	11.2	7.9	6.3	4.5	2.0	2.9	2.3	1.1	0.7	7.6	11.7	19.8	21.3	5.6	12.5	7.2	7.2	8.0	14.9	3.2	3.3	2.6	1.9	7.4
23	1.9	3.9	1.7	0.8	0.0	0.4	14.3	16.3	17.2	21.3	14.5	19.4	37.8	29.1	26.9	31.0	24.3	20.6	16.3	16.4	16.5	24.8	19.6	24.6	16.6
24	24.5	35.5	32.5	43.2	40.3	22.7	32.3	26.5	25.1	24.4	20.3	22.0	18.8	20.2	19.2	24.6	16.1	13.8	6.3	17.4	20.6	18.9	22.1	19.7	23.6
25	16.4	15.4	12.7	19.8	17.3	10.1	10.4	15.3	9.1	9.3	10.0	15.6	16.8	17.3	15.7	16.4	14.3	14.9	15.9	18.4	18.8	18.2	13.3	14.3	14.8
26	12.5	10.9	6.2	8.5	6.3	4.7	4.0	3.8	5.0	8.2	8.8	5.3	3.4	2.5	4.7	4.5	4.9	3.6	3.9	5.7	7.3	8.3	8.8	9.2	6.3
27	8.8	7.6	7.5	10.6	10.5	11.6	13.1	14.1	14.3	12.5	9.6	7.7	4.4	4.6	3.4	3.7	3.9	5.0	3.7	3.7	3.6	2.9	1.3	1.3	7.1
28	0.4	0.0	0.6	4.0	0.2	0.5	0.0	0.0	0.0	1.0	4.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.5	0.5	0.5	0.5	1.7
29	4.0	7.0	14.8	23.6	18.7	28.4	30.0	35.8	42.4	33.9	33.9	33.8	18.0	18.4	18.2	10.0	16.0	19.9	18.9	23.7	28.4	21.6	23.3	22.3	
30	34.6	35.4	37.5	42.0	26.2	37.0	41.2	40.0	30.0	33.6	31.6	35.8	31.5	34.2	39.4	35.8	29.1	13.5	21.5	22.2	25.0	23.3	17.1	17.5	30.6
Means	12.1	13.6	13.7	16.1	13.3	13.2	14.2	13.8	13.1	13.9	13.4	14.5	14.5	14.3	14.0	15.2	12.8	11.6	12.3	12.9	13.1	13.1	10.8	13.1	13.44

ANEMOMETER.

MILES PER HOUR.

JULY 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.	
1	21.3	20.8	29.5	19.0	21.0	21.0	28.0	24.5	17.5	24.5	52.8	50.6	35.4	10.5	17.5	14.0	10.5	10.5	19.9	26.0	26.9	24.2	26.3	22.7	24.0	
2	36.6	9.6	8.1	14.0	8.8	4.3	2.2	0.9	10.0	28.7	30.7	28.9	28.4	26.2	23.6	30.4	26.8	32.0	34.6	49.9	44.2	51.6	46.5	47.7	25.3	
3	55.0	40.5	57.2	62.3	48.8	41.8	34.8	21.8	19.2	14.4	5.0	10.0	15.5	11.0	14.5	14.0	16.2	21.9	9.7	20.3	19.3	13.3	14.3	13.1	21.7	
4	13.7	12.1	11.0	14.9	5.5	10.0	12.5	10.0	10.4	10.4	11.6	7.2	8.2	14.4	6.8	11.0	7.1	13.0	11.1	9.1	14.0	14.0	16.5	10.2	11.0	
5	8.7	8.9	9.8	12.3	7.4	11.8	10.2	8.4	9.4	7.2	8.5	9.0	9.7	9.2	9.9	10.0	10.9	9.8	10.0	11.2	9.4	8.8	10.3	15.6	9.8	
6	18.8	23.2	23.8	22.9	16.2	7.2	13.6	8.1	7.2	4.0	9.5	13.0	10.0	9.1	6.1	3.8	0.8	7.5	35.4	44.0	49.8	44.0	28.4	15.6	17.6	
7	20.6	17.4	11.9	14.4	14.5	15.3	17.8	20.9	24.0	23.8	20.4	22.2	25.6	24.7	26.2	30.0	25.2	18.4	27.4	21.0	23.1	19.4	17.4	12.0	20.6	
8	19.1	15.5	13.0	12.5	14.1	13.4	15.7	12.8	7.7	3.9	6.4	6.2	3.9	3.1	5.3	7.3	6.7	5.3	7.4	2.6	2.5	2.6	3.4	4.4	8.1	
9	4.0	1.9	2.9	5.1	11.3	3.3	2.8	3.0	2.0	1.5	0.0	0.5	0.1	0.2	0.0	0.0	0.0	12.0	20.9	18.6	28.9	35.5	37.4	38.8	9.6	
10	42.0	48.1	44.4	44.6	49.5	40.0	35.4	35.0	28.7	18.2	15.9	13.7	20.9	25.4	17.9	24.6	22.6	11.5	10.9	8.1	8.2	14.4	9.4	6.6	24.8	
11	6.7	10.3	10.5	9.2	5.2	4.6	2.3	0.8	0.4	10.3	8.0	13.1	17.6	32.6	23.9	33.6	21.7	21.2	21.4	20.0	17.4	18.9	17.8	16.6	14.3	
12	16.8	26.5	23.3	22.0	28.0	16.4	28.2	21.1	20.2	18.7	11.3	14.0	2.9	3.0	6.7	12.7	6.9	9.0	1.2	7.2	18.9	20.7	26.6	32.2	16.4	
13	19.4	13.2	7.2	38.2	17.4	23.6	33.2	34.4	42.8	42.2	48.3	51.5	51.9	54.1	2.0	15.7	14.3	18.8	13.5	11.1	16.1	31.1	41.9	31.5	29.1	
14	26.5	32.0	32.0	47.9	32.6	-	-	-	-	44.8	16.0	17.8	10.3	24.6	19.8	25.3	18.2	15.5	14.6	16.2	17.7	14.4	8.7	3.6	-	
15	2.1	1.7	1.8	2.5	0.3	0.5	6.6	20.6	13.0	27.6	37.0	20.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	35.0	36.0	32.4	30.4	39.9	34.2	28.1	30.9	31.0	27.5	51.2	31.4	41.2	39.8	43.1	38.4	35.1	36.6	35.6	37.5	36.6	-	-	-	-	
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	-	-	-	-	-	-	-	-	-	-	-	16.8	-	8.0	4.7	7.0	1.7	8.9	6.2	26.8	26.2	22.9	26.1	30.9	32.0	-
23	40.2	40.9	35.3	31.6	3.3	4.6	30.7	40.9	35.0	27.3	35.2	22.4	31.8	37.6	21.2	37.9	29.1	31.3	26.9	25.3	35.8	40.6	42.6	34.6	30.5	
24	32.9	19.3	27.3	21.5	15.1	6.6	17.7	18.2	23.1	14.1	0.1	1.0	11.3	17.0	28.1	12.7	16.7	12.3	16.3	21.7	15.4	15.2	20.6	16.0	16.7	
25	12.7	14.4	20.2	25.2	23.2	11.1	8.1	10.6	2.1	1.7	2.4	8.5	21.5	22.8	20.8	27.0	31.7	25.7	30.6	28.0	23.6	39.0	25.6	29.7	19.6	
26	29.5	33.0	29.6	18.9	2.4	3.5	2.0	5.0	5.0	4.1	9.0	6.9	3.3	3.8	0.9	0.5	2.9	2.5	2.0	3.0	2.9	7.4	5.6	24.1	9.1	
27	27.2	22.8	26.8	30.9	24.9	26.6	31.7	23.7	35.6	35.4	34.0	11.2	21.8	13.3	7.4	1.6	1.0	0.5	4.4	0.4	6.9	9.0	4.9	3.0	17.0	
28	5.3	1.5	0.0	1.8	2.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.4	1.1	0.0	4.1	0.1	0.0	0.0	0.8	
29	0.0	0.0	0.0	0.5	1.2	0.6	1.3	5.1	5.8	7.8	5.9	8.2	4.5	5.0	2.9	3.3	2.8	2.0	0.8	1.0	0.2	12.5	1.9	3.1	3.2	
30	4.2	4.5	5.4	2.6	3.4	10.4	15.9	22.1	19.5	22.6	27.8	19.0	14.8	15.2	14.7	11.0	9.1	8.7	5.0	7.3	6.3	5.7	4.2	2.6	10.9	
31	5.0	4.4	5.1	8.1	9.1	9.7	4.9	4.1	3.8	0.3	9.2	3.1	3.9	7.0	3.1	5.0	3.9	3.4	5.3	4.3	4.7	3.1	1.1	4.0	4.8	
Means	20.0	17.7	18.7	19.8	15.2	13.0	15.9	15.1	15.0	14.6	16.0	14.6	15.6	15.7	13.0	13.9	11.7	12.7	14.4	15.5	17.2	19.6	18.3	17.5	15.86	

ANEMOMETER.

MILES PER HOUR.

AUGUST 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	1.0	1.3	0.2	0.1	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.9	6.5	24.0	18.4	2.2
2	29.1	25.4	26.1	36.0	18.2	11.8	1.2	8.7	0.5	5.3	5.1	4.7	10.2	8.8	2.0	2.0	4.7	0.0	0.0	0.1	0.0	0.0	10.3	17.5	9.5
3	12.8	17.3	5.8	19.2	19.4	18.7	19.9	13.5	17.4	21.0	6.9	0.0	0.2	1.3	1.0	2.2	5.1	2.2	2.8	2.5	9.5	3.6	3.7	4.7	8.8
4	21.2	21.7	22.3	25.1	21.3	33.9	26.2	1.3	6.4	4.3	5.0	6.0	8.6	2.4	4.0	13.5	13.0	19.9	17.0	20.6	23.1	20.5	20.7	22.8	15.9
5	27.6	23.2	29.3	31.3	29.1	26.7	35.5	30.4	27.3	34.0	34.0	50.8	31.1	32.7	28.4	29.5	29.2	27.3	43.2	41.6	39.4	30.2	35.9	35.1	31.8
6	34.0	32.4	21.2	35.5	27.3	43.2	44.6	54.6	55.3	38.0	54.5	38.0	19.0	18.5	25.2	21.2	28.3	19.7	15.5	18.2	15.0	9.9	4.1	3.2	28.2
7	5.2	6.3	3.5	0.0	0.7	15.1	4.1	6.6	5.7	5.3	6.7	7.7	4.7	5.7	5.3	6.4	8.0	6.8	9.8	5.7	4.7	3.9	4.1	4.3	5.7
8	6.1	5.7	5.5	0.1	8.0	2.5	3.0	4.0	1.4	1.8	1.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	2.0
9	7.1	21.5	12.2	16.9	24.0	19.0	8.0	11.0	15.0	15.0	9.0	22.8	15.0	12.0	6.1	15.4	12.8	15.3	14.4	12.4	15.1	17.7	18.1	18.2	14.8
10	13.1	15.4	16.4	10.8	11.9	7.0	5.2	2.7	4.2	2.0	6.5	8.0	10.2	12.7	2.2	11.4	16.7	9.4	7.1	3.3	1.0	1.8	0.7	0.9	7.5
11	2.9	8.6	8.9	11.1	8.5	4.7	8.6	5.3	9.0	3.7	5.8	8.3	9.7	3.2	6.4	8.1	8.3	6.9	1.9	6.0	5.4	5.9	6.7	2.8	6.5
12	0.7	1.4	0.3	-	-	-	-	-	-	-	-	-	5.1	0.0	2.0	11.1	26.5	23.9	27.2	27.9	25.8	23.5	26.3	22.4	-
13	20.2	15.3	4.9	8.0	3.9	16.7	29.5	23.9	26.8	25.2	26.0	28.0	25.0	24.9	16.0	20.3	12.2	10.4	18.9	24.9	24.6	27.2	20.6	22.5	19.8
14	22.7	21.7	22.8	28.7	23.4	19.1	29.9	28.6	27.5	33.9	19.9	40.0	34.4	37.9	37.7	47.5	48.9	53.6	37.0	38.4	42.3	58.5	55.7	42.8	35.2
15	55.5	55.5	52.1	61.3	66.5	61.8	49.9	35.9	37.0	61.0	61.0	44.0	42.0	34.0	36.0	32.0	33.4	37.6	33.8	28.6	21.7	21.9	37.3	38.1	43.6
16	39.9	42.0	43.3	47.0	48.6	48.0	37.1	40.7	36.3	38.0	34.6	44.2	31.2	45.5	41.0	39.0	25.0	29.4	24.1	29.4	24.6	31.9	25.1	25.9	36.3
17	25.2	12.9	22.8	19.1	16.7	18.9	23.7	18.1	38.5	31.7	32.0	30.5	30.5	21.0	30.1	20.9	35.5	34.0	30.9	27.1	24.5	15.0	24.7	17.7	25.2
18	22.4	29.8	23.4	33.1	32.2	29.6	25.4	32.4	34.3	36.9	10.1	30.0	25.7	25.4	32.4	27.8	33.5	14.5	9.2	7.9	8.1	8.1	7.0	8.3	22.8
19	12.7	12.3	7.9	9.3	8.5	3.9	13.7	6.4	9.3	8.3	6.3	5.8	7.6	6.8	8.5	7.7	11.1	14.8	14.1	10.7	9.0	9.3	8.8	5.1	9.1
20	7.1	6.3	7.5	7.2	9.7	12.4	9.8	8.8	12.7	7.4	11.2	12.0	15.9	12.1	20.0	12.2	11.8	12.6	13.7	5.5	19.2	14.0	12.5	9.4	11.3
21	10.1	5.0	3.1	4.1	6.9	5.0	5.0	5.8	3.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	11.2	11.6	20.6	21.3	16.5
22	20.1	18.2	27.4	25.8	24.0	26.9	23.6	33.5	32.9	28.3	24.5	30.9	25.3	18.7	17.6	14.1	27.4	35.2	34.6	27.8	24.7	23.6	25.4	29.8	25.8
23	29.8	27.5	26.2	40.4	22.8	31.4	29.8	30.0	30.2	32.9	25.6	26.0	26.4	23.0	21.5	7.5	6.9	12.4	14.5	21.0	15.7	27.4	21.5	34.6	24.4
24	27.8	20.5	16.0	10.6	12.4	7.7	9.1	13.1	6.1	0.0	0.0	0.0	0.0	1.2	1.0	2.6	3.5	4.4	6.2	6.2	6.5	6.0	6.5	2.8	6.7
25	14.0	9.9	9.4	12.4	11.0	11.1	10.4	10.7	12.5	9.1	11.4	11.5	5.5	5.5	8.1	4.4	10.0	7.3	7.7	8.2	5.4	5.3	5.1	4.6	8.8
26	4.8	4.6	3.3	5.3	2.8	2.0	2.9	2.6	5.0	2.2	1.7	1.5	0.6	0.8	0.0	0.0	0.3	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.7
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	9.8	10.0	10.2	8.8	11.5	12.3
28	7.9	17.9	14.5	15.9	15.1	15.3	18.0	18.6	17.9	19.9	18.1	17.2	15.2	15.8	17.9	16.7	18.0	12.5	23.5	17.3	25.0	19.7	15.3	16.7	17.1
29	18.6	18.1	18.8	15.0	13.5	8.0	5.5	8.6	13.8	15.8	22.0	23.9	15.9	23.8	15.1	7.5	13.9	15.4	12.4	10.0	10.9	9.1	11.1	13.5	14.2
30	19.7	22.0	23.7	20.9	17.7	16.8	16.1	13.0	0.7	0.0	6.7	9.5	11.5	6.5	5.0	10.5	15.7	14.1	16.5	17.9	9.0	14.7	15.8	10.7	13.1
31	11.8	12.7	10.4	11.8	14.1	7.7	16.8	11.2	8.5	6.5	6.6	6.5	12.7	10.9	10.3	9.1	9.6	8.7	4.6	0.4	0.0	0.1	0.9	0.9	8.0
Means	17.1	17.3	15.8	18.9	17.3	17.5	16.8	16.0	16.5	16.5	15.1	16.3	14.2	13.4	13.0	13.0	15.1	14.5	14.9	14.3	14.0	14.3	15.5	15.1	15.5

ANEMOMETER.

MILES PER HOUR.

SEPTEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	0.0	0.0	1.1	7.3	9.9	10.2	5.3	4.6	7.3	7.6	4.5	12.3	10.1	10.5	7.9	13.3	0.4	0.1	2.0	0.0	0.0	0.0	0.0	0.0	4.8
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	1.0	6.1	4.8	6.8	8.4	6.2	4.2	1.5	0.0	0.4	0.0	0.0	1.5	2.0
3	0.0	1.2	2.0	3.9	1.5	0.2	0.6	2.7	0.0	4.0	17.0	8.5	15.7	9.1	16.7	14.6	12.0	16.4	16.0	16.4	16.4	12.0	6.2	15.7	8.7
4	11.6	9.2	9.9	6.6	6.0	13.1	10.2	2.7	6.1	13.9	12.7	9.3	11.2	12.8	8.0	14.0	4.8	2.3	2.2	0.4	1.3	0.7	5.7	8.2	7.6
5	4.0	6.5	4.9	6.2	5.2	5.8	15.6	17.2	14.5	9.5	18.0	15.0	12.6	5.8	4.6	11.7	13.7	12.3	6.3	12.9	4.2	6.3	7.9	10.2	9.6
6	7.7	21.9	16.7	11.6	14.8	10.9	17.9	26.5	18.5	19.5	33.0	28.5	32.5	20.5	20.0	17.0	25.3	11.7	14.9	1.5	11.7	5.2	6.1	7.6	16.7
7	5.7	8.2	5.8	7.8	5.0	4.0	5.4	6.1	5.0	7.4	6.1	5.3	4.9	5.3	6.7	5.6	5.2	5.7	5.2	7.7	4.9	6.7	6.1	5.3	5.9
8	5.4	6.2	5.1	6.3	6.6	7.0	6.3	7.2	6.0	7.9	5.0	5.1	6.4	4.3	1.6	1.4	0.5	0.2	0.3	0.0	0.0	0.0	0.0	0.0	3.7
9	3.3	3.6	1.5	0.0	0.0	13.6	12.0	25.3	50.4	35.6	30.0	46.7	43.5	46.3	41.6	44.5	44.8	45.9	42.2	35.4	30.5	32.4	44.8	49.1	30.1
10	40.8	36.7	37.4	48.3	44.8	37.4	33.0	35.0	19.7	33.3	16.6	21.8	19.5	18.2	10.1	13.2	18.9	19.1	17.2	22.9	16.8	26.7	24.3	20.6	25.3
11	23.8	19.2	22.1	20.4	15.6	18.8	22.9	18.3	20.8	19.3	30.9	50.1	33.2	25.0	23.0	29.5	28.9	28.9	25.0	17.7	25.1	34.7	37.5	28.5	21.6
12	35.7	31.4	27.9	26.9	19.8	7.3	1.7	2.0	3.0	4.1	2.2	0.1	0.0	0.8	2.2	0.8	1.3	1.5	0.7	0.5	6.5	2.0	1.6	1.4	7.1
13	1.8	1.6	0.6	0.8	2.5	1.7	0.4	0.1	0.0	0.0	0.2	0.3	0.3	0.2	1.0	0.0	5.9	0.5	0.6	1.5	2.5	3.3	3.0	1.9	1.3
14	3.9	6.5	4.9	0.2	3.0	1.5	1.5	5.2	4.4	5.4	4.4	1.8	12.1	1.7	15.6	10.5	17.6	11.5	6.7	8.8	6.1	6.1	9.0	6.5	6.9
15	8.9	7.2	5.5	4.9	8.7	1.5	1.0	1.0	1.8	2.7	1.5	0.4	0.4	1.2	1.5	1.5	0.6	3.2	2.5	2.7	2.2	2.7	1.2	2.2	2.8
16	1.1	1.0	0.7	1.0	1.6	1.3	2.9	3.6	3.5	1.0	4.0	2.4	3.5	5.3	7.1	5.1	4.1	3.8	3.5	3.5	6.4	1.7	2.3	1.9	3.0
17	1.0	1.7	2.0	8.8	8.3	11.6	2.4	11.0	8.2	6.8	10.0	1.0	12.8	5.0	4.0	4.8	3.1	1.1	0.0	0.0	0.0	0.0	8.8	21.5	5.6
18	26.2	28.1	36.0	37.9	26.0	25.5	39.5	31.0	37.0	35.0	29.0	18.5	30.1	20.9	24.7	28.1	29.2	29.8	15.5	4.3	23.8	23.6	18.6	18.0	26.5
19	16.8	15.6	9.1	8.5	9.5	3.1	3.7	1.5	0.5	0.5	0.7	3.0	21.7	20.2	20.6	21.4	23.0	33.6	34.2	41.6	35.3	47.9	40.1	35.3	18.6
20	36.9	18.6	22.0	19.2	6.9	8.1	8.9	7.0	6.0	6.2	7.8	5.5	3.4	3.1	2.0	1.3	2.8	7.1	8.8	7.2	1.6	2.6	4.3	3.3	8.4
21	0.9	0.2	0.6	0.1	0.8	1.1	0.0	0.0	0.0	0.0	0.1	2.2	0.2	0.0	0.3	1.6	1.8	0.0	0.0	0.0	0.0	0.7	0.7	0.3	0.5
22	0.1	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	1.0	12.0	16.2	21.6	24.4	20.6	19.4	9.1	14.7	16.3	19.2	7.3
23	19.9	23.3	18.1	16.3	22.7	24.5	14.0	15.5	29.5	39.5	41.0	39.0	45.0	47.0	35.1	35.0	37.5	41.8	45.0	40.1	39.5	31.6	32.1	27.9	31.7
24	26.6	14.6	18.5	7.1	4.0	1.3	2.7	0.0	1.7	0.0	0.0	0.0	10.5	19.5	25.0	31.5	47.5	39.0	31.4	36.6	34.5	28.0	33.0	36.3	18.4
25	32.6	26.2	27.1	19.8	19.5	21.0	21.0	32.0	20.0	15.0	20.0	26.0	25.9	23.0	22.6	15.5	14.5	16.7	18.5	18.7	11.3	13.0	4.5	0.1	19.4
26	3.0	2.6	3.0	0.0	0.0	0.6	2.5	9.5	12.5	15.0	16.0	13.5	12.5	15.6	14.1	13.8	14.4	14.6	18.3	12.8	6.6	8.6	9.6	5.5	9.4
27	4.6	5.3	2.8	2.1	1.3	0.3	0.0	3.7	3.5	21.5	19.0	25.0	26.9	28.2	21.9	22.6	16.1	10.7	22.3	18.8	11.8	6.4	4.2	6.8	12.9
28	9.1	29.6	16.7	12.4	16.3	11.2	0.5	0.2	2.5	14.5	5.0	10.0	3.0	4.3	1.9	0.3	4.0	4.5	7.3	10.7	11.3	11.9	11.4	8.0	9.0
29	8.3	10.4	9.6	13.1	10.2	7.8	7.0	9.5	7.7	5.8	3.0	5.0	4.3	2.4	1.8	0.5	0.2	5.9	0.5	0.0	0.7	7.4	12.8	12.0	6.1
30	9.1	18.3	9.7	10.1	9.3	8.5	18.5	20.0	15.0	27.0	21.0	18.0	21.2	17.6	20.4	17.9	4.0	10.4	14.8	17.0	11.4	20.4	11.3	7.2	14.9
Means	12.0	11.8	10.7	10.3	9.3	8.6	8.6	9.9	10.2	11.9	12.2	12.5	14.3	12.7	12.7	13.4	14.3	13.4	12.8	12.0	11.1	11.9	12.1	12.1	11.6

ANEMOMETER.

MILES PER HOUR.

OCTOBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	4.2	5.7	8.4	2.4	3.7	27.0	25.0	16.0	24.0	28.0	30.0	34.0	31.7	31.3	22.6	12.5	14.9	12.6	13.5	11.9	14.0	5.4	9.0	11.3	16.6
2	7.3	8.3	6.8	8.7	6.2	12.0	8.0	8.0	10.0	10.0	15.0	13.0	8.7	9.7	9.6	10.8	12.2	8.4	8.4	12.7	6.1	4.4	2.6	2.3	8.7
3	5.4	0.9	1.9	1.3	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	[4.0]	[9.0]	12.4	8.0	10.8	10.6	7.8	6.6	7.6	19.0	23.2	5.4
4	35.2	32.5	31.7	31.6	34.8	26.0	33.3	35.0	34.0	42.0	30.0	32.0	23.4	24.7	27.9	24.4	25.6	18.7	16.5	14.5	7.0	4.2	7.8	9.6	25.1
5	11.2	8.7	4.7	8.9	19.2	19.0	21.5	24.5	22.0	15.0	13.5	17.3	28.9	33.3	32.5	31.5	30.0	28.4	28.7	25.9	28.5	28.6	32.6	27.0	22.7
6	27.0	29.6	26.2	21.0	28.5	23.0	19.5	21.5	29.0	24.0	21.0	32.5	23.0	20.9	20.3	11.7	13.4	12.0	11.4	12.0	14.1	14.3	12.7	13.7	20.2
7	16.6	14.6	19.1	21.0	22.7	12.0	13.2	13.8	13.0	12.5	10.5	17.0	16.0	20.0	15.5	11.0	6.6	6.4	4.7	2.3	2.5	1.9	3.2	3.7	11.9
8	2.6	3.0	6.2	7.4	11.5	7.5	7.0	1.7	5.3	4.0	0.2	1.8	1.0	1.6	1.6	0.2	0.6	1.5	2.7	5.1	4.6	7.7	2.1	0.7	3.6
9	10.9	12.1	11.3	15.8	14.0	17.5	15.8	13.7	16.5	6.5	5.0	10.5	10.5	7.8	0.5	0.2	0.3	1.3	5.9	3.7	1.5	0.0	0.0	0.3	7.6
10	0.0	0.0	0.0	0.0	4.5	7.9	6.2	3.6	6.8	9.3	5.2	3.7	0.4	0.0	1.2	1.4	0.0	0.0	1.3	5.9	6.9	6.7	9.0	12.6	3.9
11	8.2	8.2	6.6	3.0	3.4	14.5	13.0	14.2	13.6	17.0	14.4	7.4	13.3	5.1	1.0	0.5	1.6	0.0	0.3	0.8	3.0	7.7	8.2	8.2	7.2
12	9.3	3.9	1.4	2.4	2.5	1.6	3.1	1.2	2.1	0.9	1.8	1.0	0.5	0.7	1.6	1.9	1.4	0.4	1.3	0.6	3.0	0.7	0.2	0.5	1.8
13	0.1	0.0	5.9	3.6	6.6	7.1	9.1	11.0	18.5	11.8	12.7	14.5	19.2	22.6	21.7	14.8	7.2	3.3	1.9	3.0	2.8	4.6	4.3	3.2	8.7
14	8.2	2.6	5.4	7.2	7.6	4.5	7.5	6.5	4.6	8.1	7.3	7.5	4.7	5.1	5.7	4.3	4.0	2.9	3.1	5.0	3.0	1.0	0.1	5.1	5.0
15	9.8	3.7	10.5	0.1	1.7	5.0	11.8	10.9	21.3	23.0	35.0	41.0	33.4	37.2	24.0	5.1	29.3	26.0	19.3	10.7	5.7	3.5	4.4	15.4	16.2
16	4.1	0.8	2.9	5.5	2.2	1.6	1.1	0.5	0.1	0.0	0.1	1.3	0.2	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
17	0.0	4.3	6.9	9.5	10.7	10.5	11.5	12.0	17.5	18.7	15.3	15.0	16.3	15.5	15.0	19.8	26.4	26.5	28.6	35.0	43.0	37.4	38.9	39.9	19.7
18	34.4	33.8	39.1	32.9	38.0	36.0	25.0	24.3	30.2	24.7	35.8	30.0	19.9	38.8	30.9	28.4	23.5	23.0	13.0	7.5	0.5	1.3	0.4	0.1	24.1
19	4.2	1.0	0.2	0.3	0.7	5.8	10.7	9.8	18.3	11.2	11.5	16.4	19.4	18.2	12.5	19.0	30.0	38.3	39.0	30.2	21.3	15.7	15.1	17.8	15.4
20	16.8	16.0	16.9	16.7	17.6	12.8	19.0	15.2	30.5	22.8	17.7	15.0	9.3	9.1	4.9	3.8	2.2	2.3	3.4	1.1	1.1	2.6	1.5	1.5	10.8
21	0.9	0.8	0.9	1.3	0.3	1.5	1.5	2.3	3.5	3.5	7.2	5.5	6.5	5.7	11.5	3.3	10.0	9.6	10.0	8.6	8.3	15.0	17.9	23.4	6.6
22	17.9	16.0	32.3	25.1	20.9	20.5	27.3	26.6	24.7	24.0	30.5	28.5	31.4	27.7	36.8	26.1	29.9	23.2	28.8	26.7	25.4	27.9	14.4	10.0	25.1
23	9.6	11.0	10.3	11.2	9.9	7.8	8.3	13.3	9.6	11.1	3.4	7.4	15.6	38.2	43.5	61.1	68.8	53.2	58.3	44.1	49.5	43.1	40.0	28.5	27.4
24	22.5	21.0	24.7	26.3	21.5	30.3	17.6	22.0	24.3	16.4	18.0	18.9	19.0	23.3	23.1	24.3	18.5	21.9	19.6	14.5	16.0	16.4	15.4	13.8	20.4
25	16.7	12.6	12.5	20.8	7.7	11.0	15.5	18.3	15.7	20.3	7.5	7.3	16.6	12.9	11.7	14.4	13.2	16.3	9.6	17.4	13.3	12.2	10.6	11.3	13.6
26	6.5	13.3	12.4	8.3	6.1	8.0	8.7	11.3	13.1	12.5	0.7	0.5	0.1	0.1	6.0	9.1	17.4	22.5	21.5	21.2	16.1	17.8	24.8	23.4	11.8
27	18.2	13.5	14.0	14.9	11.9	17.0	9.7	14.0	22.0	22.0	26.0	26.0	33.2	24.2	18.6	21.8	23.6	21.8	23.2	16.6	20.9	20.3	25.3	29.0	20.3
28	24.5	19.1	18.6	19.8	23.5	22.5	27.7	22.8	42.2	32.8	26.5	33.2	19.3	25.5	31.5	34.3	40.1	23.9	25.7	25.8	32.0	27.9	31.3	28.2	27.0
29	21.1	21.7	15.7	11.3	20.6	19.1	18.3	15.8	21.7	25.5	25.8	30.7	21.2	25.4	27.6	21.2	24.7	23.4	18.4	25.0	22.2	26.5	17.4	13.9	21.3
30	21.6	20.0	21.0	24.7	15.3	16.5	12.0	31.5	37.0	21.6	7.0	14.3	13.0	24.9	24.9	32.9	32.0	15.4	21.9	24.8	20.6	23.5	16.6	6.8	20.8
31	11.8	23.5	17.7	12.7	7.3	5.0	8.0	8.0	12.0	13.0	18.5	19.2	17.1	18.6	17.3	16.9	23.0	33.0	34.2	44.6	35.7	35.2	36.3	42.1	21.4
Means	12.6	11.9	12.7	12.2	12.3	13.4	13.6	13.9	17.5	15.9	14.6	15.9	15.3	17.2	16.5	15.6	17.4	15.7	15.6	15.1	14.0	13.4	13.6	13.8	14.6

ANEMOMETER.

MILES PER HOUR.

NOVEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	32.7	27.0	28.3	17.7	13.8	22.2	19.5	18.0	12.7	10.0	4.3	2.9	4.2	7.0	22.0	39.5	39.3	52.2	46.0	53.7	45.1	44.3	42.1	34.3	26.6
2	28.3	23.8	36.3	23.5	14.0	15.6	8.1	8.3	10.8	10.6	7.1	2.7	4.0	8.1	6.5	7.0	1.5	5.3	3.8	5.6	8.6	9.6	9.8	2.9	10.9
3	6.1	5.4	7.6	6.4	4.5	2.1	4.4	1.5	0.5	0.7	4.0	4.1	1.4	1.2	3.3	2.1	3.9	3.2	0.4	1.2	13.6	6.0	7.3	10.5	4.2
4	11.8	13.2	15.3	13.0	12.1	18.1	18.5	33.8	21.4	32.7	36.1	23.7	26.2	22.9	16.8	20.3	14.8	14.0	19.3	11.5	13.6	14.0	9.4	15.0	18.6
5	13.5	12.2	15.7	13.0	18.9	10.9	20.3	19.1	17.2	14.8	15.1	12.9	5.8	13.7	2.0	1.7	6.1	2.6	4.3	4.5	0.9	3.3	6.0	3.9	9.9
6	2.9	3.3	8.3	0.5	6.9	3.6	10.3	17.5	17.7	20.1	24.0	15.1	12.7	17.2	19.6	29.7	15.4	18.6	14.7	10.3	6.7	7.3	4.7	6.8	11.9
7	7.1	10.4	3.7	7.5	16.5	19.2	14.8	8.4	9.3	5.1	9.4	5.3	6.3	1.3	1.9	3.2	1.1	0.1	0.1	1.9	4.6	0.2	1.1	1.4	5.8
8	4.0	2.4	2.4	1.0	0.1	0.8	1.2	2.1	3.9	2.4	1.3	0.3	0.4	0.5	0.6	2.7	0.8	0.8	0.1	0.0	0.1	1.5	1.5	4.1	1.5
9	8.6	1.5	0.3	1.6	7.2	3.6	3.3	0.2	0.2	0.0	0.2	2.0	0.2	1.6	0.4	0.5	0.8	1.7	11.0	8.5	13.6	8.7	10.2	14.7	4.2
10	17.1	15.0	17.2	15.6	18.8	18.8	16.8	20.5	17.2	16.6	14.8	18.8	17.3	14.9	15.6	7.2	13.4	15.2	9.4	14.0	15.3	17.3	11.7	7.8	15.2
11	5.4	17.8	14.2	12.2	10.6	9.8	2.5	6.9	9.4	6.0	8.7	11.4	17.5	14.7	9.4	6.8	12.3	1.7	4.1	9.3	5.6	7.4	8.0	13.5	9.4
12	9.2	2.2	11.6	9.6	10.4	1.8	4.6	11.7	12.9	21.9	22.9	21.0	20.9	24.7	21.2	19.8	21.5	19.8	16.0	15.8	19.9	9.0	10.3	18.7	14.9
13	22.7	21.3	20.6	20.5	17.1	17.8	14.7	14.8	11.2	9.0	14.1	16.7	10.0	18.3	16.8	14.4	15.0	17.2	19.6	16.4	16.1	17.7	13.8	14.7	16.7
14	15.2	13.0	27.4	16.2	24.5	26.3	32.2	26.8	21.1	25.3	20.3	11.4	9.4	7.7	1.9	1.0	0.8	1.4	2.1	4.6	7.4	9.6	8.1	5.7	13.3
15	8.6	5.8	3.2	3.1	1.5	0.7	1.6	1.3	4.8	5.6	6.6	5.6	14.2	14.6	11.4	5.9	4.8	4.2	3.3	3.5	1.5	5.0	0.6	13.9	5.5
16	25.2	18.9	26.1	15.6	10.8	13.9	19.7	20.3	19.7	21.2	27.0	19.7	17.0	20.2	17.5	18.2	16.6	19.6	21.3	23.7	22.7	23.2	21.7	19.7	2.0
17	19.4	18.3	21.9	13.2	9.9	7.7	12.8	10.8	3.4	5.3	1.3	2.5	6.0	6.1	4.8	8.4	14.0	13.1	8.0	13.3	5.9	8.9	9.9	15.3	10.0
18	17.5	16.3	11.7	21.1	11.7	11.6	13.3	22.8	21.5	17.7	13.8	12.5	10.1	12.1	12.2	6.5	6.1	3.4	5.3	5.9	6.2	6.0	11.9	10.8	12.1
19	8.6	5.6	8.8	8.4	5.3	4.9	4.5	6.5	6.1	3.6	6.0	4.9	13.9	19.0	26.0	20.8	21.9	22.0	21.2	10.9	17.9	26.6	28.0	27.3	13.7
20	42.1	37.7	36.6	30.6	22.0	20.9	20.6	20.9	20.9	24.6	30.3	28.8	28.1	17.4	9.2	8.9	10.9	17.2	9.8	2.9	0.8	3.7	7.7	4.1	19.2
21	3.7	3.5	3.5	1.0	0.0	5.0	10.4	5.3	2.6	9.6	8.0	7.3	10.9	12.0	6.9	9.3	16.1	18.4	17.9	14.3	6.2	8.1	5.0	9.5	8.1
22	12.7	11.2	13.3	15.0	6.7	12.3	19.7	11.0	8.2	19.7	16.0	18.9	19.0	21.3	20.1	16.5	10.6	17.0	20.1	32.2	27.4	25.2	21.0	22.4	17.4
23	29.3	23.4	20.6	24.0	21.1	22.5	24.0	21.5	20.4	20.0	17.2	19.0	23.3	22.7	19.4	16.0	12.7	7.7	9.3	9.4	20.0	16.8	7.9	7.5	18.1
24	10.5	17.4	11.3	9.4	15.0	12.2	15.2	9.4	2.2	1.5	2.6	5.1	10.8	12.2	14.2	11.0	10.9	5.8	3.4	9.3	9.2	8.9	9.4	3.7	9.2
25	7.8	5.0	1.1	3.5	5.4	14.5	11.7	11.8	8.1	1.9	0.1	0.0	0.0	0.0	0.6	0.3	7.3	5.0	5.8	6.7	17.0	21.3	21.8	25.9	7.6
26	22.6	23.8	26.9	26.6	32.0	27.9	26.1	22.7	26.7	26.6	26.7	23.6	19.0	13.5	12.0	14.2	9.9	6.2	4.2	6.0	1.2	1.8	8.3	0.5	17.0
27	0.9	0.1	0.7	0.8	1.6	4.6	9.5	6.5	6.0	5.6	3.5	4.0	2.0	7.3	4.6	4.4	3.0	4.8	3.7	1.3	1.0	0.3	0.0	0.0	3.2
28	0.0	0.0	0.0	0.9	2.7	0.4	4.6	6.0	8.0	2.1	4.3	8.8	10.8	9.3	14.5	15.1	1.7	11.8	11.2	9.6	8.2	6.4	6.8	6.1	7.1
29	2.7	7.2	5.3	2.4	4.3	6.9	3.5	0.7	0.1	0.2	0.2	1.4	2.0	3.0	3.0	5.6	3.7	4.3	6.2	6.8	6.9	3.9	5.3	3.0	3.7
30	12.3	8.6	11.1	14.6	15.1	18.3	21.2	21.1	20.1	19.7	17.0	15.0	17.1	18.0	17.5	18.8	16.6	13.5	9.7	11.8	9.9	13.8	14.8	13.2	15.4
Means	13.6	12.4	13.7	11.7	11.3	12.0	13.0	13.0	11.3	12.1	12.3	10.9	11.7	12.1	11.1	10.9	10.8	10.9	10.4	10.8	11.1	11.2	10.9	11.2	11.7

ANEMOMETER.

MILES PER HOUR.

DECEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid-night.	Mean.
1	14.3	6.2	15.3	11.3	3.7	15.0	5.4	11.2	7.2	4.2	4.3	3.2	3.3	3.6	2.7	5.1	4.5	11.5	12.5	6.3	6.4	6.0	3.3	1.5	7.0
2	1.8	8.1	9.6	1.7	0.6	0.0	0.2	0.5	0.8	0.3	0.7	1.8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
3	0.0	0.0	0.3	0.3	1.1	1.1	2.7	0.9	3.5	3.5	2.1	4.9	6.7	5.9	3.7	3.6	1.6	0.6	0.7	0.4	6.8	4.9	5.3	4.9	2.7
4	3.8	0.5	0.0	0.0	2.2	6.8	9.1	5.5	5.7	4.8	5.0	7.0	7.8	6.7	7.6	6.3	9.9	9.4	11.7	9.0	3.7	4.1	1.2	0.2	5.3
5	0.0	0.0	0.2	2.8	4.9	6.4	5.4	6.5	6.5	3.7	5.7	7.6	5.9	5.1	1.9	2.4	4.2	3.4	0.9	2.0	0.1	0.1	0.0	0.0	3.2
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.8	0.3	0.1
7	0.6	0.3	0.1	0.7	1.3	1.9	0.8	12.6	13.0	23.5	12.2	18.7	24.5	25.8	20.1	11.5	8.3	8.6	13.6	10.4	24.8	15.9	16.8	18.8	11.9
8	20.6	19.6	12.3	8.1	16.9	13.9	9.4	5.4	9.4	9.6	8.8	7.6	5.2	4.4	2.8	3.0	4.1	5.1	10.2	3.6	9.6	10.7	11.2	11.0	9.3
9	9.7	9.9	7.9	6.8	7.6	12.7	9.3	22.5	26.7	14.3	17.3	19.1	15.5	14.9	26.6	26.3	21.0	24.3	24.4	18.9	21.0	18.9	20.4	21.8	17.4
10	22.8	30.3	32.0	30.1	29.1	30.5	27.4	28.0	22.7	28.8	19.3	17.8	17.5	15.8	13.9	10.4	7.6	4.4	3.0	4.4	2.9	0.7	0.3	0.0	16.7
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.0	0.0	0.3	1.8	2.6	1.5	1.7	2.1	3.1	2.0	0.6
12	0.5	0.8	3.4	2.2	1.5	0.5	1.1	0.3	0.1	0.0	0.2	0.0	2.1	2.9	3.7	0.3	0.1	0.0	1.2	0.0	0.0	3.1	9.6	15.1	2.0
13	16.4	15.5	17.8	13.8	10.6	10.3	5.7	11.1	8.4	6.4	13.7	11.1	15.6	23.5	25.5	24.7	19.0	14.4	13.6	17.2	13.7	19.5	8.7	15.3	14.6
14	10.4	11.1	3.5	3.1	2.5	2.3	2.3	3.8	5.5	6.1	5.9	2.5	1.1	3.3	6.5	4.5	3.7	3.8	11.0	8.4	10.6	4.0	12.4	5.9	14.6
15	9.4	14.6	22.1	22.7	14.1	2.7	4.0	8.3	9.3	10.0	10.2	12.0	11.1	9.9	8.0	6.9	9.8	8.3	20.0	31.3	32.9	30.7	25.5	18.2	14.6
16	13.3	12.9	8.0	5.8	6.5	7.5	7.9	14.5	17.1	18.7	13.7	14.9	13.8	11.6	9.0	18.8	14.2	14.6	26.5	24.0	21.9	16.5	16.8	9.2	14.1
17	14.2	6.4	4.7	5.1	8.1	10.3	10.7	10.4	13.3	13.7	12.0	11.5	11.7	14.1	11.3	16.9	18.5	15.9	13.3	8.8	10.2	15.4	10.5	19.0	11.9
18	24.5	29.2	26.7	15.9	16.5	21.1	23.1	19.1	21.6	11.8	12.7	14.5	14.8	12.1	11.2	8.8	9.9	11.0	15.5	12.1	10.6	9.3	8.5	11.7	15.5
19	10.6	8.4	8.6	3.7	0.7	1.1	0.0	2.4	1.8	7.8	10.8	10.6	12.2	13.4	7.1	5.4	6.9	8.5	9.3	8.1	6.9	8.7	11.3	23.1	7.8
20	24.5	26.4	28.9	22.3	23.5	24.9	19.5	17.5	24.2	17.9	19.7	19.1	13.5	5.6	0.0	1.4	0.1	0.1	2.2	1.4	2.0	0.1	0.5	1.9	12.4
21	2.7	8.1	8.2	11.8	11.5	13.8	18.3	9.8	3.7	9.6	18.1	20.7	13.3	12.9	12.6	15.9	18.1	14.2	12.7	15.9	23.2	17.8	15.1	15.7	13.5
22	12.6	18.7	15.8	15.8	24.0	24.2	25.4	29.2	27.9	31.1	31.0	30.3	30.5	37.8	34.6	35.0	32.5	30.3	34.1	29.7	33.5	21.9	21.2	30.2	27.4
23	38.5	31.6	16.1	13.1	12.3	17.0	21.7	16.7	14.5	10.9	17.7	11.7	24.9	19.7	12.0	22.1	20.6	15.6	17.0	23.0	16.3	19.4	13.0	18.2	18.2
24	15.9	15.1	16.6	22.1	24.8	24.0	16.4	9.7	9.7	5.0	9.2	17.9	5.2	11.0	15.2	8.5	3.4	4.3	8.7	2.1	12.2	8.8	9.0	9.0	11.8
25	6.2	8.6	9.0	12.0	10.5	7.8	4.6	6.1	6.7	8.3	8.6	10.8	12.8	11.6	9.7	8.7	8.1	8.3	7.8	7.7	8.8	7.6	8.3	4.0	8.4
26	4.6	4.6	1.2	0.9	0.3	0.0	0.1	0.0	0.5	0.5	1.2	1.4	4.0	1.0	2.6	2.1	3.6	2.6	1.3	1.1	0.4	0.2	0.1	0.8	1.5
27	0.1	0.7	1.8	0.2	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.6	0.4	0.2
28	2.2	0.7	0.6	0.1	0.3	0.4	0.3	0.1	0.1	0.0	0.0	0.5	0.0	0.0	0.0	2.2	0.4	1.6	2.4	1.4	1.8	1.2	3.0	1.6	0.9
29	1.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7	3.6	5.2	4.4	3.8	1.3	0.0	0.0	1.0	2.2	2.3	0.7	2.5	2.5	1.5	1.5
30	0.5	0.0	0.4	0.3	0.0	1.2	3.2	2.6	2.3	3.2	3.7	5.7	2.0	1.4	1.4	2.9	3.3	0.9	0.0	0.0	0.0	3.2	9.4	4.4	2.2
31	17.4	17.2	12.3	19.1	12.2	13.1	21.1	28.3	25.4	25.6	20.1	18.4	32.4	25.8	18.4	15.4	11.6	5.9	20.8	35.3	22.2	17.0	16.9	22.1	19.8
Means	9.7	9.9	9.1	8.1	8.0	8.7	8.2	9.1	9.3	9.1	9.3	9.9	10.1	9.8	8.7	8.4	7.9	7.6	9.6	9.0	10.0	8.8	8.5	9.4	9.0

ANEMOMETER.

MILES PER HOUR.

JANUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid-night.	Mean.
1	19.0	23.9	16.7	27.9	27.6	24.7	23.1	18.6	12.3	4.4	7.7	5.8	6.0	7.5	10.3	5.1	3.5	1.6	1.8	1.9	3.4	3.1	1.3	1.7	10.8
2	1.2	0.7	3.7	3.6	4.3	3.1	1.6	1.2	11.8	3.4	1.1	1.0	3.0	10.0	10.0	6.9	3.4	1.6	0.0	3.3	6.6	4.5	6.2	6.9	4.2
3	6.0	7.0	12.2	15.6	13.7	14.6	20.0	25.5	34.4	41.4	43.4	39.6	39.7	43.5	38.7	36.7	36.3	35.5	35.6	32.0	30.9	25.9	27.1	22.1	28.2
4	20.4	15.2	16.5	15.0	10.7	10.1	7.1	6.4	8.5	4.9	7.7	0.4	0.0	0.8	1.0	0.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	5.2
5	1.0	3.4	3.5	2.4	2.1	3.3	5.6	7.1	7.6	8.3	8.0	6.8	7.4	4.3	7.2	10.2	9.7	9.3	1.6	0.1	0.1	0.2	1.7	2.0	4.7
6	1.8	3.3	2.1	0.3	0.7	1.9	1.6	3.3	6.2	4.3	2.2	10.0	9.1	15.2	9.6	6.2	12.0	8.8	4.4	3.6	7.6	2.5	4.4	2.0	5.1
7	3.1	3.5	0.8	1.3	0.1	0.1	0.3	0.0	0.7	0.0	0.0	0.6	2.0	5.6	2.3	4.2	0.9	1.6	2.2	2.6	7.5	11.2	17.0	20.0	3.6
8	18.7	9.4	12.9	15.1	4.1	4.1	2.9	1.5	0.8	0.7	0.7	1.0	0.1	0.1	0.0	1.1	5.6	22.2	23.6	25.9	25.2	17.3	20.6	25.6	10.0
9	10.6	4.3	16.7	11.0	9.4	7.1	18.9	7.8	21.8	14.9	20.4	18.3	13.3	19.9	14.7	10.2	11.1	11.9	9.5	9.6	8.9	4.8	2.3	0.0	3.7
10	0.5	0.1	0.0	2.8	9.0	7.1	4.6	7.1	7.4	3.9	2.4	2.5	5.0	8.9	10.0	1.3	19.6	14.0	16.1	9.0	15.3	16.6	20.5	17.3	8.4
11	12.1	8.6	14.4	15.4	17.5	18.5	17.0	18.1	15.6	11.9	7.6	7.0	12.4	11.9	9.0	2.7	0.3	1.1	1.0	5.5	4.8	6.8	10.0	7.5	9.9
12	8.0	8.1	2.4	1.6	0.7	0.7	1.1	1.6	0.4	2.1	1.7	4.8	7.7	12.1	7.9	8.6	5.9	2.1	3.2	0.5	2.2	1.9	2.2	1.7	3.7
13	1.4	5.5	7.4	10.2	1.1	4.5	1.6	1.4	0.6	0.0	0.5	9.2	16.7	7.4	3.0	1.3	1.3	0.1	0.0	0.0	0.0	0.5	0.0	0.0	3.1
14	0.0	0.2	1.1	2.5	3.4	0.7	4.4	7.1	3.8	1.2	0.3	1.4	1.0	2.4	3.4	3.3	1.5	1.6	0.6	0.5	1.5	0.7	0.0	0.2	1.8
15	6.2	0.4	0.5	1.3	2.8	4.7	4.5	2.0	1.9	3.2	0.4	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0	1.2
16	0.2	0.0	0.1	0.1	0.2	0.5	0.6	1.0	0.2	0.0	1.6	1.3	0.8	3.2	2.6	3.1	2.7	0.4	0.1	0.1	0.0	0.0	0.0	1.0	0.8
17	1.8	0.6	0.1	0.1	1.4	5.1	7.2	5.3	2.6	1.3	5.1	12.0	21.9	22.8	24.9	25.0	22.6	21.0	21.6	8.0	7.8	9.4	9.6	4.0	10.0
18	12.2	4.5	3.0	5.0	2.0	4.1	6.8	9.1	3.7	1.4	0.7	0.3	0.6	3.8	4.2	2.4	2.1	1.6	0.7	2.2	6.9	6.2	5.7	5.8	4.0
19	13.8	14.3	12.1	7.1	4.0	4.2	4.1	3.1	3.0	3.0	0.6	0.0	0.6	4.5	10.6	6.4	9.7	10.0	10.0	10.1	11.6	10.1	10.0	6.3	7.1
20	14.0	11.1	15.6	18.3	27.0	21.3	17.8	11.7	10.5	7.0	3.5	7.0	10.5	14.0	7.5	9.0	11.4	15.3	17.8	19.3	22.3	20.7	23.7	16.5	14.7
21	20.9	18.1	12.6	13.1	3.9	11.0	12.7	14.1	16.6	16.5	18.8	16.7	16.1	13.3	9.5	6.4	5.6	6.0	2.1	2.9	3.2	1.2	2.4	2.8	10

ANEMOMETER.

MILES PER HOUR.

FEBRUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	17.7	19.6	21.7	21.5	33.8	33.5	33.8	34.6	30.6	23.6	18.8	4.2	8.5	5.5	6.7	9.3	11.3	8.5	10.7	6.7	6.9	7.3	3.1	2.7	15.9
2	6.2	3.8	2.4	4.6	7.2	9.7	8.7	5.2	3.7	2.5	1.7	4.3	5.4	6.0	6.8	6.8	7.1	8.3	7.0	5.4	1.3	10.9	9.9	16.7	6.3
3	18.5	24.8	29.4	27.4	29.6	32.0	30.5	29.0	29.5	31.8	32.5	29.6	33.6	31.1	25.5	26.6	30.0	27.7	22.6	26.5	26.1	23.1	21.4	18.4	27.4
4	15.7	11.0	13.8	15.9	9.0	12.2	26.9	16.9	19.7	20.3	16.7	16.3	24.0	22.1	19.9	19.5	21.5	20.0	19.7	16.2	18.4	22.6	23.0	21.0	18.4
5	23.0	23.8	20.7	12.8	17.0	18.6	25.0	28.2	28.5	26.9	26.3	21.5	23.4	21.1	22.5	21.1	21.9	16.8	13.8	15.6	17.5	16.2	15.4	13.2	20.4
6	14.6	11.1	12.1	9.5	9.8	15.7	17.8	18.1	19.0	17.4	20.3	17.3	14.4	13.9	20.3	25.3	24.5	22.3	21.5	19.2	19.5	19.8	20.2	19.8	17.6
7	20.2	19.5	22.4	17.2	22.5	14.6	9.6	9.3	9.2	2.8	4.3	8.8	8.2	8.9	8.7	6.9	5.7	8.7	11.8	6.0	18.6	11.2	12.9	15.7	11.8
8	14.7	11.5	15.1	2.2	9.3	1.5	2.9	7.2	12.4	12.6	5.8	5.2	6.5	4.0	7.0	13.2	8.2	12.5	17.5	25.1	40.9	30.4	23.7	18.9	12.8
9	17.6	25.0	20.8	10.8	25.2	18.7	23.7	19.6	20.0	19.9	20.0	17.8	21.3	22.3	21.5	18.2	20.2	17.4	17.4	19.0	14.0	14.0	18.3	12.2	19.0
10	12.4	16.5	16.3	12.8	3.6	12.9	7.1	5.4	7.0	7.5	11.8	19.3	23.3	18.6	16.1	13.2	15.6	12.8	6.3	2.1	5.0	10.1	9.7	10.5	11.5
11	10.2	12.0	13.5	13.4	13.0	14.7	12.4	11.9	7.0	9.8	12.5	16.4	18.3	14.2	19.2	24.5	20.7	18.3	22.7	24.1	14.7	12.7	14.5	13.4	15.2
12	16.3	14.7	19.2	23.0	16.2	15.8	16.4	14.9	16.4	15.4	8.9	19.2	14.0	24.8	21.1	19.3	23.3	17.4	15.0	12.9	11.8	13.3	15.1	8.0	16.4
13	6.4	13.3	19.9	18.0	16.2	15.6	12.1	15.1	13.4	7.9	6.4	19.8	18.4	18.7	20.2	22.5	22.3	22.5	24.0	19.6	20.8	22.4	22.6	22.1	17.5
14	21.2	19.7	13.8	20.8	22.5	23.9	34.2	18.5	23.1	23.3	36.0	30.2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	28.2	25.0	22.6	11.5	23.9
15	21.6	19.6	22.6	20.8	23.0	26.5	26.5	23.5	24.6	22.0	20.6	18.2	17.6	15.7	11.8	8.1	10.1	7.8	4.5	3.6	2.3	1.8	2.0	4.0	15.0
16	2.9	3.1	2.6	2.8	2.6	3.0	2.7	5.0	10.9	13.7	10.6	6.6	3.6	3.9	7.8	17.9	6.9	8.1	7.8	6.4	4.5	8.6	5.2	6.4	6.4
17	11.1	5.5	5.4	2.4	2.8	7.9	6.1	6.4	4.2	2.7	2.4	1.6	3.2	3.6	3.5	3.1	3.4	4.2	3.6	2.6	1.8	2.8	2.4	2.4	4.0
18	2.0	4.2	5.8	7.1	4.8	3.1	1.6	14.1	10.8	13.3	19.2	19.1	24.6	22.2	18.0	12.0	11.4	12.3	14.5	9.1	18.2	14.0	8.6	8.7	11.6
19	5.6	9.0	9.1	5.3	5.0	7.5	4.5	6.1	6.1	6.4	7.5	6.5	9.2	15.1	19.2	16.5	14.9	22.0	28.8	34.6	31.7	32.4	34.1	15.5	14.7
20	7.3	15.4	32.2	35.1	24.1	14.3	7.0	8.7	18.1	20.5	19.6	18.5	14.1	19.0	21.3	14.3	16.2	5.1	11.7	7.5	4.8	14.0	14.0	14.0	15.7
Means	13.3	14.2	15.9	14.2	14.9	15.1	15.5	14.9	15.7	15.0	15.1	15.0	15.8	15.8	16.1	16.2	16.0	14.9	15.3	14.4	15.4	15.6	14.9	12.8	15.1

HUMIDITY.

RELATIVE HUMIDITY SATURATION = 100.

APRIL 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	78	82	93	79	87	90	93	89	90	87	89	81	95	93	93	90	93	97	96	83	86	100	93	93	89.7
2	93	93	92	97	96	97	93	93	68	84	78	65	89	89	86	84	91	84	85	81	82	88	83	79	86.2
3	77	78	82	82	86	91	92	94	96	97	97	98	98	97	96	99	96	93	95	94	95	94	96	95	92.4
4	97	91	91	93	96	91	91	93	85	75	93	95	100	94	96	86	100	92	84	86	80	85	72	70	89.0
5	81	87	88	79	76	68	73	80	85	87	91	86	89	94	92	88	79	87	91	97	97	93	94	97	86.6
6	99	100	93	94	81	95	91	91	93	92	90	93	89	94	100	96	92	71	72	70	85	87	89	88	89.4
7	94	81	83	74	74	81	83	96	93	83	90	90	97	93	100	93	96	96	92	97	100	97	92	86	90.0
8	80	83	89	89	86	80	81	75	55	60	67	79	83	95	71	78	85	85	77	77	70	80	84	75	78.6
9	70	77	82	70	83	86	77	70	79	82	82	82	85	76	79	100	91	95	95	100	90	100	92	87	85.4
10	91	86	90	92	89	92	89	90	87	80	72	78	68	78	74	89	87	92	97	93	96	97	100	81	87.1
11	93	47	72	65	77	60	86	94	96	95	92	98	96	95	100	100	100	100	100	98	100	95	95	95	89.5
12	96	90	82	82	82	84	91	92	92	93	100	96	100	98	97	98	96	98	98	100	98	98	98	94	93.9
13	92	100	100	92	99	97	83	75	69	59	58	55	39	45	58	67	67	74	82	76	88	81	71	74	75.0
14	84	78	77	74	84	87	81	84	97	80	85	78	71	71	74	79	71	93	97	100	100	100	100	85	84.5
15	100	85	97	94	94	94	88	91	91	68	62	79	88	84	98	97	82	78	79	99	97	70	97	95	87.8
16	90	95	92	97	99	94	93	83	88	93	94	82	81	77	78	94	91	97	78	85	81	90	75	79	87.8
17	76	73	86	78	80	77	83	73	79	71	97	83	76	84	80	79	88	91	95	100	100	94	100	100	85.2
18	100	100	100	100	100	100	100	95	100	91	100	100	100	97	98	100	99	100	99	100	100	96	96	88	98.3
19	96	98	100	100	97	88	98	100	95	90	96	77	86	96	98	94	100	92	95	96	86	92	98	93	94.2
20	86	77	80	88	59	71	66	67	70	58	55	86	70	53	67	53	48	50	59	65	84	69	69	68	67.4
21	65	83	80	94	86	97	87	100	98	98	95	98	98	99	97	94	96	99	89	90	93	96	98	97	93.2
22	96	100	96	99	93	93	92	95	93	92	92	93	91	92	96	98	98	97	96	95	97	95	96	95	95.2
23	96	96	100	99	95	96	95	96	98	86	83	75	68	70	74	70	68	70	76	91	82	81	81	89	84.8
24	92	92	93	90	94	100	100	96	97	92	91	89	92	96	96	100	92	100	86	79	87	92	86	96	92.8
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	92	93	98	98	83	83	74	70	83	90	92	92	53	77	81	75	83	67	69	80	83	91	91	91	82.4
27	86	76	67	91	94	81	97	90	87	86	70	69	91	100	70	83	90	100	97	100	96	100	96	100	88.2
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Means	88.5	86.2	88.6	88.1	87.5	87.4	87.6	87.4	87.1	83.4	85.0	85.1	84.1	86.2	87.4	87.5	87.5	89.0	87.8	88.8	90.7	90.3	90.0	88.3	87.5

HUMIDITY.

RELATIVE HUMIDITY SATURATION = 100.

OCTOBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	80	100	100	98	96	100	100	100	91	99	91	83	89	96	94	90	88	93	98	97	92	86	86	89	93.2
6	81	84	92	84	80	80	78	78	87	81	84	84	89	79	75	74	74	76	77	70	86	93	93	81.4	
7	96	90	96	81	86	88	84	84	88	88	86	86	90	89	88	86	79	92	84	84	92	92	89	93	87.5
8	83	86	80	85	88	90	90	78	79	91	72	77	76	83	81	78	78	78	80	79	85	90	87	82.2	
9	78	88	79	82	75	79	83	83	78	92	94	92	87	82	77	75	76	86	95	95	97	96	95	85.8	
10	95	95	100	100	86	82	86	84	86	88	91	94	81	79	76	94	85	76	69	79	80	88	100	94	87.0
11	100	94	97	100	94	94	80	75	75	82	85	83	93	88	79	83	80	92	80	80	91	94	97	94	87.9
12	94	97	95	92	92	89	88	88	78	73	66	77	71	65	60	70	71	60	67	67	73	81	72	75	77.5
13	80	70	88	90	87	75	81	73	77	73	65	78	87	90	90	93	96	98	88	89	82	79	81	86	83.2
14	86	78	81	71	89	72	65	63	62	60	68	68	74	60	73	97	72	77	79	83	74	71	69	73.6	
15	77	75	75	77	75	77	93	89	92	86	90	94	96	94	87	65	66	72	76	72	76	73	81	79	80.7
16	71	72	86	78	81	86	80	79	71	79	70	89	83	97	78	82	82	69	90	84	90	80	98	92	82.0
17	87	93	98	98	98	98	92	100	97	95	95	80	100	95	97	95	90	95	97	92	78	89	90	89	93.2
18	80	83	87	89	91	90	100	88	92	92	96	98	99	96	94	97	100	99	96	96	97	90	74	80	91.8
19	77	76	74	70	75	94	88	88	98	91	81	87	88	90	76	86	94	93	79	86	67	75	72	71	82.5
20	53	56	46	50	46	56	56	78	84	70	78	67	70	70	70	67	71	67	67	62	71	61	69	69	64.8
21	74	82	73	71	78	97	73	57	72	73	77	73	67	81	70	78	78	81	80	68	66	65	75	71	74.2
22	74	84	86	90	82	97	97	94	91	95	90	94	95	97	97	96	96	97	91	97	98	97	97	97	92.0
23	77	72	70	71	65	67	73	78	82	83	82	81	83	93	97	96	95	96	99	98	98	97	97	97	81.4
24	85	80	82	89	80	75	66	67	77	84	87	92	94	90	92	93	77	75	77	73	75	75	78	73	80.7
25	79	78	76	96	90	75	75	77	80	81	94	81	87	90	76	75	73	65	65	71	74	71	75	69	78.1
26	71	78	69	69	80	72	75	76	87	83	70	79	81	77	84	88	86	85	92	97	92	94	99	93	83.2
27	100	100	100	87	86	83	84	72	81	89	89	92	75	76	79	78	77	80	73	77	71	69	69	73	81.7
28	80	78	78	81	73	91	95	100	96	96	97	100	99	95	87	93	97	100	100	99	100	100	99	100	93.1
29	98	94	91	90	84	75	83	83	71	85	100	99	89	92	90	93	97	98	98	96	93	95	93	92	90.8
30	96	96	100	85	84	81	99	83	84	83	86	87	81	81	77	77	94	83	84	78	80	81	69	78	84.6
31	82	73	77	72	76	69	73	80	88	84	97	99	96	96	99	97	100	97	97	90	90	100	100	100	88.8
Means	82.7	82.4	84.3	83.2	82.1	82.8	82.9	81.3	83.1	84.8	84.6	85.8	85.9	86.0	83.1	85.1	84.1	84.4	84.3	84.0	83.1	84.2	84.7	84.1	83.9

HUMIDITY.

RELATIVE HUMIDITY SATURATION=100.

NOVEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	99	100	100	100	100	100	100	100	99	98	95	96	95	98	98	81	83	78	77	76	82	75	77	89	91.5
2	68	73	67	64	68	81	70	77	69	74	79	69	69	85	61	71	69	64	64	62	67	69	66	63	68.8
3	69	70	59	62	76	73	76	76	76	73	67	68	73	73	75	76	81	79	84	78	89	85	95	93	76.1
4	93	93	91	88	65	88	87	86	85	92	96	92	94	100	77	71	83	99	100	81	83	83	80	86	87.2
5	89	87	87	91	96	97	92	80	74	77	77	74	71	66	70	64	68	62	61	62	73	73	72	75	76.6
6	72	68	71	77	92	90	97	97	95	99	95	92	82	90	94	97	100	100	90	94	100	91	87	87	89.9
7	85	87	81	88	86	88	80	78	73	80	83	83	86	85	78	74	70	66	72	82	85	87	100	94	82.1
8	92	92	93	90	83	78	75	74	75	75	76	80	74	78	72	74	77	81	88	80	80	83	80	89	80.8
9	81	91	97	100	100	100	97	97	97	80	83	84	83	91	82	80	85	90	98	91	83	75	78	76	88.3
10	77	83	88	87	96	88	91	89	93	90	90	90	94	93	98	88	95	85	84	73	80	74	86	100	87.8
11	72	98	65	68	68	62	63	68	80	79	80	82	78	81	78	81	83	95	90	95	98	100	99	97	81.7
12	100	100	100	100	100	100	100	100	100	100	91	95	86	100	100	98	97	99	96	78	84	73	76	77	93.8
13	79	81	83	76	78	57	58	61	63	61	61	54	53	62	61	64	63	64	61	63	67	66	67	62	65.3
14	85	87	91	98	100	92	80	90	90	95	88	97	100	100	100	98	95	100	95	87	97	93	92	90	93.3
15	92	100	82	69	75	70	76	76	74	64	63	60	70	61	60	60	55	56	54	54	57	63	62	72	67.6
16	100	96	100	98	99	79	97	85	85	82	78	70	85	93	85	84	85	76	74	75	85	72	89	76	85.3
17	72	73	77	70	69	77	67	74	73	88	81	83	81	75	73	71	69	70	67	78	63	79	100	81	75.6
18	86	72	76	74	71	77	72	82	77	67	85	81	69	72	65	67	72	70	71	67	66	71	67	67	72.7
19	84	62	70	76	78	89	88	84	90	89	90	85	97	99	95	92	92	91	92	94	93	91	91	92	87.7
20	94	91	90	92	96	100	100	100	100	99	100	100	100	99	98	82	89	76	74	81	72	92	100	100	92.7
21	100	100	100	100	100	100	100	100	100	89	86	90	93	88	81	97	98	100	95	96	97	97	93	89	95.4
22	100	100	100	100	97	89	98	85	95	91	76	68	88	99	96	100	90	99	83	87	88	88	92	92	91.7
23	93	90	97	93	88	86	87	84	84	82	79	90	83	92	92	87	92	92	94	96	100	100	100	100	90.5
24	99	97	84	88	96	97	96	100	100	84	72	72	71	67	60	62	79	55	59	60	57	60	62	47	76.0
25	62	63	82	96	92	93	95	93	91	88	88	78	71	89	84	91	85	94	98	98	81	78	78	78	85.2
26	64	69	69	76	69	77	76	67	67	72	73	76	74	76	75	71	70	63	73	72	60	60	65	62	69.8
27	66	81	74	64	82	62	66	62	54	62	54	56	51	55	62	64	66	66	67	65	62	65	73	76	64.8
28	74	74	84	89	93	85	92	90	85	88	86	88	90	84	88	87	83	87	85	85	50	85	90	98	85.0
29	96	95	94	92	93	98	89	94	96	95	98	98	96	94	90	92	95	95	91	91	93	91	96	94.0	
30	96	86	96	96	98	98	100	98	100	83	83	79	75	78	87	76	76	71	78	78	83	79	79	79	85.5
Means	84.6	85.3	84.9	85.4	86.4	85.9	85.3	85.3	84.7	83.2	81.5	80.7	81.2	84.1	81.2	80.0	81.5	80.8	80.6	79.3	79.0	80.0	82.9	82.8	82.8

HUMIDITY.

RELATIVE HUMIDITY SATURATION=100.

DECEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.	
1	72	67	65	68	82	77	83	81	82	78	84	83	85	87	86	90	90	88	84	88	91	90	90	89	82.5	
2	87	86	86	88	95	91	86	81	78	76	80	83	83	81	76	79	81	81	80	86	83	86	90	98	84.2	
3	90	98	86	90	87	86	92	86	80	82	75	75	87	85	87	85	79	78	81	79	69	70	67	67	81.7	
4	69	71	77	63	64	63	62	66	62	63	65	70	73	70	71	79	83	81	93	93	98	100	96	97	76.2	
5	93	95	96	94	95	89	92	86	87	72	84	82	91	88	85	81	79	72	79	83	95	70	83	79	85.4	
6	77	82	78	82	89	87	83	84	91	82	96	78	91	81	74	74	75	78	76	76	79	70	64	75	80.0	
7	71	81	80	79	82	86	85	85	83	76	74	76	75	80	76	85	80	78	76	75	81	83	88	84	80.0	
8	87	86	82	82	88	82	86	84	82	81	80	81	83	81	81	82	83	88	90	88	91	95	100	99	85.9	
9	99	96	99	96	96	96	86	82	83	83	82	81	77	77	77	81	83	82	84	85	88	90	95	88	86.9	
10	91	85	88	86	85	85	87	82	85	83	86	84	84	85	84	84	81	86	83	86	89	93	88	87	86.0	
11	95	93	95	93	96	95	94	95	89	88	100	86	88	85	88	88	90	98	98	96	96	96	100	98	93.5	
12	96	89	89	89	95	90	91	90	87	90	73	84	83	86	88	88	89	89	98	87	84	86	91	88	88.3	
13	97	96	83	92	88	96	95	93	92	87	95	91	100	100	100	97	94	91	90	89	85	75	80	94	91.7	
14	81	77	82	78	85	85	83	80	77	78	80	79	85	82	73	88	83	96	92	90	84	89	79	86	83.2	
15	90	91	93	95	93	91	93	96	97	97	98	95	95	94	96	96	97	99	100	100	98	100	100	100	96.0	
16	100	100	100	100	99	100	100	100	100	100	100	89	92	85	81	99	99	100	92	79	77	78	80	79	92.9	
17	79	79	84	80	80	80	73	84	83	76	74	73	69	64	59	62	64	58	81	77	84	89	93	90	76.5	
18	94	95	94	92	93	94	100	100	100	87	74	65	66	66	83	86	91	93	94	95	95	92	99	89.5		
19	100	99	99	99	100	100	100	99	100	100	99	97	95	95	96	96	99	97	99	99	99	100	100	99	98.6	
20	100	100	100	97	99	99	100	98	99	100	100	100	99	100	96	100	100	89	97	100	100	100	100	100	98.9	
21	94	98	100	98	100	98	96	86	85	85	89	89	86	93	87	75	75	83	95	96	81	85	86	86	89.4	
22	81	77	85	91	80	86	97	100	100	93	98	98	97	96	99	96	97	94	86	92	84	94	91	99	92.1	
23	85	71	86	86	94	89	85	84	83	97	87	88	87	88	92	91	87	88	92	100	100	100	99	89.5		
24	90	94	94	97	92	91	89	96	96	95	84	91	92	92	78	78	78	81	82	89	81	71	72	66	86.6	
25	74	74	80	76	78	82	83	78	86	74	74	69	76	89	76	77	81	84	87	84	76	72	82	76	78.6	
26	78	77	79	73	80	84	79	82	84	86	85	82	86	84	87	82	92	98	91	92	100	100	99	97	86.5	
27	99	97	98	93	98	96	97	93	93	94	98	99	96	98	99	99	97	97	97	97	96	100	97	96.8		
28	88	90	91	91	91	88	87	86	79	88	80	90	89	90	90	92	93	92	91	89	87	87	89	96	88.9	
29	91	91	90	91	93	94	93	92	100	100	98	94	98	90	90	88	83	98	94	95	100	94	93	96	93.6	
30	97	100	100	100	98	76	80	84	82	75	74	71	69	64	80	80	78	79	83	86	84	88	91	92	96	84.5
31	97	97	99	100	100	100	98	99	99	99	100	99	98	97	100	97	99	97	99	99	99	98	99	99	98.7	
Means	88.6	88.1	89.0	88.6	90.2	88.9	88.9	88.1	87.9	86.0	86.0	84.6	86.3	85.6	84.9	86.3	86.9	87.9	89.1	89.1	88.9	88.8	89.6	90.2	87.8	

HUMIDITY.

RELATIVE HUMIDITY SATURATION=100.

JANUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	93	83	78	77	78	79	81	90	83	84	81	83	77	74	88	75	69	66	71	75	82	82	78	78	79.4
2	80	76	73	60	69	69	67	72	75	56	57	62	70	78	73	77	63	66	65	72	69	66	71	69	69.0
3	70	73	72	70	74	77	70	77	77	81	76	80	74	80	83	77	81	77	78	83	70	70	76	70	75.7
4	79	66	72	65	63	67	73	67	71	63	69	66	67	66	67	64	59	63	60	62	67	64	74	72	66.9
5	70	65	66	69	67	71	70	74	78	78	75	83	85	87	86	86	88	90	87	89	94	88	76	78	79.2
6	66	69	82	62	61	71	73	76	69	67	70	50	57	59	63	72	67	65	51	66	58	55	56	58	64.3
7	58	57	57	59	59	62	61	65	67	79	76	74	72	72	83	72	74	71	72	81	98	99	100	100	73.7
8	100	98	98	95	94	98	98	99	97	97	95	92	90	90	94	97	97	97	96	98	98	98	100	98	96.3
9	99	86	85	84	81	86	78	70	69	71	70	62	75	87	85	66	91	94	94	98	98	99	100	98	84.4
10	98	93	91	99	100	100	100	99	100	100	100	99	94	88	85	89	91	88	89	82	89	91	95	97	94.0
11	98	90	84	83	85	84	84	82	86	83	84	93	84	84	86	81	88	88	83	78	76	83	79	80	84.4
12	76	75	72	75	73	74	77	82	77	83	85	83	79	83	80	81	78	76	79	92	85	83	81	78	79.5
13	86	88	93	100	92	94	91	98	94	98	91	96	95	96	90	89	97	96	93	98	97	93	92	91	93.8
14	92	96	93	91	97	94	85	72	72	72	72	82	77	78	81	85	77	76	75	72	78	69	67	67	82.5
15	67	64	64	63	68	71	70	67	62	61	63	62	62	63	68	71	75	75	75	77	75	74	70	71	68.2
16	72	68	67	72	68	67	69	73	71	70	67	69	68	75	76	68	71	72	71	70	71	71	71	72	70.4
17	71	73	75	65	69	68	86	84	72	76	82	82	80	81	71	71	72	77	79	99	95	97	95	93	79.7
18	97	99	99	100	98	99	96	91	91	90	88	88	86	84	90	92	92	93	97	98	94	98	98	98	93.9
19	95	100	95	95	98	96	97	97	99	99	98	94	91	92	94	93	96	97	100	100	100	99	100	96	96.7
20	94	96	99	96	96	97	96	99	100	100	100	98	96	97	99	99	100	100	100	100	100	100	98	99	98.3
21	100	99	100	97	98	99	99	100	99	99	98	98	98	97	99	97	97	98	98	99	99	99	100	100	98.6
22	100	100	97	96	98	97	96	97	95	96	96	96	96	96	97	98	96	99	99	97	99	97	99	99	97.2
23	100	100	100	100	97	97	98	98	92	96	94	92	81	84	79	84	87	83	88	85	79	83	89	79	90.2
24	76	80	74	72	74	88	81	75	78	74	79	69	77	74	75	73	77	74	72	71	83	73	86	76.3	76.3
25	92	94	93	88	93	94	91	92	76	64	67	70	73	69	73	71	72	68	67	67	68	71	73	75	77.5
26	77	74	78	75	81	79	88	88	87	86	81	88	86	84	88	90	86	82	85	88	85	85	82	74	83.6
27	71	70	76	73	71	82	89	91	100	99	100	100	100	100	100	93	92	91	93	92	85	81	79	88	88.2
28	80	74	74	86	86	93	82	83	78	85	82	81	81	81	81	83	87	87	81	88	85	79	90	90	83.3
29	84	89	93	87	76	77	78	83	81	77	74	81	86	77	76	78	79	79	75	73	74	73	78	78	79.4
30	80	80	79	75	77	79	79	82	96	85	88	90	88	86	88	83	81	81	74	75	68	74	77	78	81.0
31	76	72	61	62	63	63	62	65	65	64	69	71	73	72	72	73	72	73	74	72	76	74	67	72	69.3
Means	83.8	82.2	81.9	80.4	80.7	83.0	82.4	83.7	82.5	81.7	81.6	81.7	81.3	81.8	82.7	81.5	82.3	82.1	81.4	83.9	83.4	83.1	83.1	83.4	82.4

HUMIDITY.

RELATIVE HUMIDITY SATURATION=100.

FEBRUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	71	73	85	98	100	100	100	100	100	100	96	97	97	97	99	92	91	90	91	89	90	93	94	85	92.8
2	88	88	98	94	100	96	97	97	97	95	91	86	82	78	79	83	80	81	81	81	80	83	86	88	87.9
3	90	95	95	97	93	91	90	95	96	92	92	99	98	97	100	99	98	97	99	94	97	98	98	100	95.8
4	99	100	96	95	94	93	93	91	86	87	83	82	81	82	81	85	89	88	86	84	73	73	77	77	86.5
5	94	95	96	92	85	86	85	78	72	78	66	72	71	68	71	74	78	85	89	88	94	92	95	99	83.5
6	100	99	99	99	98	96	95	81	83	95	98	98	93	87	80	76	78	75	73	74	80	76	71	71	86.5
7	72	67	71	69	71	71	85	86	92	96	100	100	97	90	89	85	78	71	69	82	90	89	89	92	83.4
8	88	67	70	84	84	80	82	84	87	94	95	80	86	79	77	91	93	91	91	96	94	96	99	99	87.0
9	99	98	91	90	90	91	95	92	93	83	97	88	80	77	79	79	76	76	81	81	85	82	89	88	86.7
10	72	68	72	69	72	68	74	77	77	76	86	92	96	98	94	94	94	98	99	94	92	96	94	93	85.2
11	93	92	91	88	93	91	90	92	93	97	96	94	98	99	85	79	79	93	96	95	94	94	96	95	92.2
12	94	85	73	70	76	79	84	75	78	77	78	75	76	78	81	80	87	80	81	73	71	67	74	85	78.3
13	77	75	86	79	76	80	79	73	82	82	84	71	70	72	65	64	73	77	66	69	80	82	86	84	76.3
14	95	95	79	83	82	90	80	82	89	88	86	87	82	86	80	80	85	91	95	86	72	73	82	82	84.6
15	71	73	72	70	78	79	61	67	74	71	73	65	74	70	69	71	71	72	74	70	69	65	72	75	71.1
16	77	77	75	68	72	71	73	82	91	92	90	96	97	93	93	89	91	91	92	90	91	86	86	87	85.4
17	87	92	87	87	86	85	87	90	83	80	81	75	89	92	93	94	97	94	93	92	91	91	91	85	88.4
18	88	96	97	94	93	95	98	97	95	95	97	97	96	98	94	89	86	78	73	69	69	69	70	70	87.6
19	73	73	71	76	73	74	71	71	81	75	75	84	79	90	91	91	93	94	97	97	97	96	96	96	83.9
20	93	88	89	90	81	91	96	81	87	95	97	98	100	100	90	92	86	90	82	78	84	92	96	93	90.4
21	97	94	97	97	95	97	100	98	97	93	82	97	92	74	80	90	69	69	73	77	88	75	91	85	87.8
Means	86.6	85.2	85.2	85.2	85.3	85.9	86.4	85.2	87.3	87.7	87.8	87.3	87.3	85.9	84.4	84.6	84.4	84.8	84.8	83.8	84.8	84.2	87.2	87.1	85.8

VAPOUR TENSION.

APRIL 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid-night.	Mean.
1	·050	·054	·060	·053	·058	·060	·062	·059	·060	·058	·059	·056	·064	·062	·065	·065	·069	·069	·071	·065	·066	·078	·072	·072	·063
2	·074	·073	·072	·078	·079	·080	·079	·065	·050	·081	·082	·080	·106	·109	·098	·094	·105	·104	·114	·115	·119	·135	·131	·133	·094
3	·132	·137	·145	·153	·160	·170	·173	·182	·183	·184	·188	·192	·192	·190	·186	·188	·181	·189	·186	·185	·174	·182	·164	·153	·174
4	·153	·144	·140	·148	·150	·144	·145	·153	·148	·147	·170	·170	·174	·166	·171	·163	·176	·158	·153	·158	·150	·163	·133	·181	·154
5	·148	·163	·174	·152	·143	·123	·128	·138	·154	·157	·170	·159	·166	·172	·171	·165	·156	·174	·180	·184	·179	·174	·175	·177	·162
6	·178	·174	·152	·154	·137	·158	·157	·157	·163	·157	·160	·170	·162	·177	·178	·168	·157	·119	·119	·110	·122	·119	·118	·104	·149
7	·101	·082	·081	·072	·068	·073	·072	·079	·077	·073	·074	·074	·072	·067	·074	·067	·068	·068	·065	·069	·071	·069	·065	·061	·073
8	·062	·063	·071	·069	·071	·069	·074	·065	·059	·065	·082	·107	·114	·134	·104	·100	·090	·080	·069	·065	·054	·060	·059	·051	·077
9	·053	·058	·058	·054	·063	·064	·056	·049	·051	·051	·050	·057	·045	·046	·037	·052	·054	·054	·057	·048	·050	·048	·048	·046	·053
10	·049	·059	·052	·055	·054	·057	·058	·064	·063	·060	·056	·064	·059	·070	·065	·076	·072	·075	·082	·080	·083	·082	·080	·079	·066
11	·078	·047	·078	·072	·090	·073	·111	·127	·142	·149	·152	·157	·176	·168	·171	·167	·160	·149	·146	·138	·135	·126	·124	·140	·128
12	·142	·127	·119	·125	·128	·133	·146	·153	·158	·163	·174	·171	·175	·172	·166	·169	·168	·168	·172	·174	·166	·171	·171	·168	·157
13	·170	·182	·174	·158	·172	·169	·158	·132	·102	·083	·081	·069	·051	·056	·067	·076	·079	·085	·091	·083	·096	·087	·076	·079	·107
14	·087	·081	·078	·077	·083	·087	·082	·086	·100	·083	·080	·069	·064	·063	·065	·070	·063	·084	·091	·095	·104	·108	·113	·100	·084
15	·113	·094	·106	·104	·103	·104	·102	·104	·105	·084	·084	·104	·123	·128	·158	·161	·157	·147	·156	·176	·171	·152	·177	·168	·128
16	·161	·172	·169	·177	·180	·172	·170	·168	·170	·175	·174	·134	·117	·103	·100	·112	·099	·104	·087	·093	·090	·101	·091	·087	·134
17	·084	·081	·126	·111	·123	·115	·133	·138	·156	·126	·161	·140	·123	·133	·122	·114	·125	·126	·124	·119	·168	·109	·107	·122	·122
18	·097	·093	·116	·118	·118	·116	·115	·131	·140	·167	·168	·171	·173	·175	·188	·185	·182	·182	·176	·182	·189	·187	·147	·151	·151
19	·138	·130	·128	·129	·127	·122	·129	·129	·126	·125	·142	·122	·130	·142	·144	·136	·141	·133	·126	·136	·130	·138	·161	·123	·133
20	·182	·157	·161	·166	·174	·078	·064	·061	·059	·051	·048	·074	·063	·047	·057	·046	·043	·045	·050	·058	·080	·060	·073	·074	·079
21	·075	·095	·092	·111	·105	·121	·116	·140	·159	·164	·162	·171	·173	·175	·177	·172	·175	·180	·173	·181	·175	·182	·180	·183	·152
22	·177	·182	·176	·180	·170	·170	·166	·167	·163	·158	·158	·160	·160	·162	·182	·186	·187	·192	·192	·188	·186	·190	·186	·190	·176
23	·191	·191	·196	·195	·192	·192	·188	·182	·177	·170	·153	·118	·106	·107	·099	·092	·092	·100	·107	·140	·143	·157	·152	·176	·150
24	·180	·186	·184	·180	·182	·186	·190	·184	·192	·182	·171	·166	·173	·176	·175	·176	·139	·061	·048	·042	·047	·048	·044	·048	·140
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	·112	·128	·141	·150	·121	·119	·104	·100	·117	·135	·137	·150	·086	·116	·113	·081	·079	·086	·071	·078	·091	·096	·104	·105	·109
27	·103	·065	·075	·097	·078	·095	·087	·076	·063	·052	·043	·054	·054	·062	·060	·073	·078	·078	·062	·055	·055	·056	·048	·048	·070
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Means	·119	·117	·120	·121	·117	·117	·118	·119	·121	·119	·123	·121	·119	·122	·123	·121	·119	·116	·114	·116	·117	·118	·117	·114	·119

VAPOUR TENSION.

OCTOBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	·113	·141	·140	·138	·141	·146	·153	·160	·152	·165	·160	·146	·150	·161	·159	·158	·152	·156	·164	·162	·153	·144	·135	·137	·149
6	·123	·126	·137	·127	·122	·122	·120	·120	·129	·117	·126	·122	·131	·114	·107	·105	·104	·104	·107	·109	·101	·122	·132	·132	·119
7	·135	·128	·135	·117	·128	·132	·127	·127	·128	·135	·135	·133	·139	·139	·136	·135	·122	·141	·127	·130	·138	·137	·133	·120	·132
8	·120	·122	·113	·117	·117	·122	·124	·111	·114	·141	·113	·118	·118	·137	·123	·120	·120	·120	·118	·116	·115	·123	·139	·139	·122
9	·136	·147	·135	·139	·125	·133	·140	·140	·137	·153	·159	·153	·149	·143	·141	·135	·134	·135	·146	·157	·157	·154	·150	·146	·144
10	·150	·146	·153	·154	·135	·125	·130	·127	·131	·133	·145	·166	·156	·154	·139	·173	·148	·129	·116	·125	·118	·124	·129	·115	·138
11	·118	·110	·092	·104	·110	·112	·098	·091	·091	·101	·099	·097	·105	·099	·092	·100	·098	·108	·100	·098	·106	·108	·109	·106	·102
12	·111	·119	·121	·119	·125	·112	·108	·108	·100	·103	·094	·103	·103	·090	·085	·096	·093	·080	·086	·083	·087	·097	·088	·091	·100
13	·093	·078	·099	·101	·099	·091	·104	·096	·110	·107	·098	·120	·137	·147	·146	·152	·154	·157	·146	·150	·143	·139	·137	·143	·123
14	·133	·110	·103	·087	·109	·101	·092	·091	·092	·088	·099	·099	·103	·081	·090	·119	·088	·090	·092	·096	·086	·086	·088	·081	·096
15	·081	·100	·100	·104	·115	·122	·145	·134	·153	·151	·158	·166	·169	·168	·165	·141	·120	·127	·134	·127	·130	·127	·137	·128	·133
16	·112	·112	·131	·120	·124	·135	·135	·156	·139	·156	·146	·167	·151	·177	·154	·158	·142	·116	·140	·128	·134	·115	·146	·137	·139
17	·126	·131	·133	·130	·128	·128	·121	·125	·119	·117	·117	·098	·122	·120	·124	·124	·119	·124	·125	·124	·110	·126	·127	·133	·123
18	·122	·127	·137	·140	·141	·137	·153	·148	·158	·161	·168	·171	·172	·170	·168	·171	·174	·169	·162	·162	·161	·149	·131	·140	·154
19	·144	·136	·133	·125	·119	·168	·133	·135	·144	·152	·148	·157	·161	·160	·139	·152	·156	·163	·139	·154	·127	·137	·128	·121	·143
20	·085	·087	·068	·075	·073	·087	·092	·122	·130	·118	·136	·106	·102	·102	·109	·102	·109	·100	·095	·081	·091	·075	·080	·080	·096
21	·085	·094	·081	·073	·083	·107	·096	·081	·103	·102	·112	·109	·100	·137	·117	·137	·137	·139	·135	·114	·110	·118	·141	·138	·110
22	·135	·144	·137	·152	·145	·161	·161	·160	·165	·166	·161	·164	·166	·168	·168	·165	·166	·164	·156	·161	·162	·161	·135	·153	·157
23	·133	·120	·109	·111	·101	·105	·119	·123	·137	·142	·149	·159	·140	·155	·156	·162	·166	·171	·174	·175	·175	·177	·177	·150	·145
24	·174	·164	·159	·167	·151	·147	·142	·145	·149	·158	·159	·164	·166	·158	·161	·161	·117	·137	·141	·134	·137	·137	·147	·144	·152
25	·154	·153	·152	·162	·158	·137	·137	·141	·146	·155	·177	·155	·160	·157	·144	·136	·135	·126	·114	·125	·127	·122	·129	·116	·142
26	·116	·122	·110	·111	·127	·119	·132	·138	·149	·147	·166	·160	·176	·167	·161	·160	·151	·148	·153	·156	·153	·159	·165	·157	·146
27	·167	·167	·167	·157	·159	·157	·160	·148	·153	·150	·156	·169	·152	·191	·198	·193	·197	·199	·187	·192	·182	·173	·172	·182	·172
28	·195	·193	·197	·206	·193	·181	·175	·171	·169	·171	·177	·179	·174	·172	·165	·181	·177	·181	·178	·173	·171	·170	·170	·174	·179
29	·171	·172	·178	·184	·199	·173	·172	·172	·167	·199	·185	·180	·167	·175	·171	·171	·178	·179	·173	·172	·168	·170	·170	·167	·176
30	·173	·176	·182	·160	·161	·162	·181	·151	·154	·157	·159	·157	·146	·148	·137	·137	·166	·146	·145	·132	·135	·137	·112	·126	·152
31	·130	·119	·130	·119	·128	·115	·120	·135	·164	·153	·164	·165	·168	·166	·172	·171	·176	·177	·178	·169	·168	·182	·180	·176	·155
Means	·131	·131	·131	·130	·130	·131	·132	·132	·136	·141	·143	·144	·144	·147	·142	·145	·142	·140	·138	·137	·135	·136	·137	·135	·137

VAPOUR TENSION.

NOVEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	.172	.174	.174	.169	.166	.163	.162	.168	.168	.171	.168	.150	.151	.146	.132	.103	.101	.094	.089	.084	.085	.072	.074	.081	.133
2	.058	.063	.057	.058	.063	.075	.063	.071	.075	.081	.082	.076	.100	.123	.091	.104	.102	.094	.094	.088	.094	.097	.094	.091	.083
3	.099	.099	.085	.091	.110	.117	.117	.123	.132	.128	.115	.123	.134	.134	.132	.135	.128	.122	.132	.120	.133	.142	.134	.153	.123
4	.150	.161	.162	.161	.117	.167	.168	.165	.163	.172	.171	.166	.172	.182	.162	.149	.155	.174	.173	.158	.180	.182	.162	.161	.164
5	.167	.160	.157	.161	.162	.182	.164	.113	.103	.103	.101	.103	.100	.097	.104	.097	.099	.090	.089	.089	.102	.103	.101	.105	.119
6	.109	.107	.116	.119	.140	.139	.154	.156	.158	.169	.169	.172	.191	.171	.176	.178	.179	.176	.177	.177	.179	.160	.153	.150	.153
7	.144	.147	.142	.146	.144	.146	.135	.136	.129	.118	.152	.154	.164	.162	.143	.139	.136	.126	.133	.142	.137	.124	.147	.136	.142
8	.133	.133	.132	.128	.120	.110	.110	.115	.118	.130	.131	.141	.135	.138	.127	.121	.124	.123	.130	.118	.120	.121	.113	.115	.125
9	.115	.118	.127	.124	.124	.124	.122	.125	.127	.115	.119	.124	.121	.148	.124	.116	.122	.127	.133	.126	.116	.106	.110	.107	.122
10	.111	.118	.125	.126	.142	.133	.141	.140	.150	.147	.151	.149	.155	.156	.159	.147	.158	.150	.154	.128	.140	.135	.143	.180	.143
11	.127	.179	.109	.107	.108	.103	.101	.116	.142	.144	.144	.147	.142	.149	.143	.142	.140	.146	.140	.154	.161	.164	.167	.161	.139
12	.166	.166	.164	.163	.165	.167	.168	.168	.167	.161	.157	.158	.143	.166	.168	.175	.177	.180	.176	.154	.161	.137	.139	.143	.162
13	.143	.146	.150	.133	.135	.096	.190	.108	.107	.105	.105	.091	.093	.106	.115	.112	.108	.109	.109	.106	.112	.114	.114	.102	.113
14	.135	.142	.145	.157	.164	.157	.141	.155	.155	.166	.152	.167	.173	.171	.175	.174	.172	.173	.158	.147	.162	.144	.138	.127	.156
15	.126	.134	.107	.092	.100	.104	.099	.107	.100	.086	.088	.083	.091	.081	.081	.085	.074	.072	.071	.073	.074	.090	.089	.107	.092
16	.147	.149	.159	.163	.178	.156	.199	.185	.189	.191	.190	.183	.185	.183	.195	.192	.184	.166	.163	.162	.161	.149	.167	.147	.173
17	.148	.141	.151	.149	.145	.141	.140	.143	.145	.157	.154	.158	.154	.138	.135	.127	.122	.118	.112	.126	.097	.115	.133	.104	.135
18	.109	.091	.098	.095	.094	.102	.097	.108	.103	.096	.120	.115	.098	.107	.098	.098	.106	.101	.104	.102	.104	.111	.102	.100	.162
19	.128	.094	.110	.141	.155	.157	.166	.167	.173	.168	.169	.167	.178	.180	.174	.169	.165	.165	.166	.166	.166	.166	.165	.171	.159
20	.168	.166	.166	.169	.175	.180	.179	.181	.182	.182	.183	.183	.182	.182	.180	.175	.187	.164	.154	.149	.146	.138	.145	.137	.169
21	.129	.119	.119	.118	.123	.126	.141	.141	.147	.141	.150	.152	.155	.152	.155	.164	.171	.165	.166	.171	.177	.178	.173	.168	.150
22	.182	.174	.174	.176	.178	.167	.179	.166	.199	.206	.161	.147	.166	.181	.168	.174	.169	.180	.160	.174	.173	.173	.173	.173	.173
23	.175	.169	.178	.171	.156	.156	.157	.158	.157	.155	.152	.168	.156	.152	.172	.157	.158	.162	.165	.164	.164	.167	.165	.174	.163
24	.178	.164	.139	.147	.164	.167	.168	.173	.173	.152	.125	.132	.127	.191	.105	.111	.139	.093	.100	.102	.094	.098	.093	.077	.131
25	.103	.104	.130	.159	.153	.151	.157	.160	.165	.165	.166	.154	.149	.167	.168	.162	.145	.157	.158	.158	.126	.119	.112	.112	.146
26	.091	.098	.100	.111	.098	.111	.107	.100	.100	.111	.114	.117	.114	.117	.115	.106	.104	.096	.109	.106	.088	.086	.093	.089	.103
27	.094	.111	.099	.087	.110	.088	.094	.089	.078	.095	.084	.082	.077	.085	.094	.098	.099	.098	.098	.093	.089	.092	.103	.108	.094
28	.105	.105	.120	.126	.132	.122	.130	.127	.123	.130	.127	.130	.125	.128	.132	.128	.120	.126	.123	.123	.076	.123	.128	.137	.123
29	.135	.134	.133	.133	.137	.144	.137	.143	.148	.157	.159	.158	.161	.157	.149	.151	.154	.154	.151	.143	.114	.146	.143	.148	.147
30	.146	.130	.143	.143	.147	.146	.147	.144	.146	.120	.119	.114	.109	.114	.124	.111	.111	.104	.112	.112	.119	.114	.114	.114	.125
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Means	.133	.133	.132	.134	.137	.137	.138	.138	.141	.142	.139	.139	.140	.143	.140	.137	.137	.134	.133	.131	.129	.129	.130	.129	.136

VAPOUR TENSION.

DECEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid- night.	Mean.
1	.106	.098	.096	.099	.120	.116	.130	.129	.130	.128	.133	.139	.142	.144	.143	.146	.146	.139	.132	.136	.141	.140	.140	.139	.130
2	.134	.135	.135	.139	.151	.148	.144	.145	.143	.133	.135	.140	.145	.144	.132	.139	.144	.137	.132	.142	.129	.133	.140	.151	.140
3	.137	.144	.133	.124	.137	.135	.142	.143	.136	.139	.137	.136	.157	.154	.153	.148	.141	.136	.139	.133	.109	.109	.100	.102	.134
4	.104	.109	.119	.100	.102	.100	.100	.119	.105	.109	.112	.117	.126	.117	.119	.132	.135	.129	.152	.155	.159	.160	.154	.154	.124
5	.148	.151	.154	.152	.151	.142	.147	.136	.138	.119	.140	.141	.154	.148	.145	.137	.134	.121	.133	.140	.158	.117	.137	.127	.140
6	.122	.130	.135	.129	.142	.142	.146	.152	.170	.150	.176	.146	.170	.148	.139	.133	.140	.138	.132	.128	.127	.110	.095	.106	.138
7	.103	.116	.122	.125	.131	.135	.140	.141	.110	.132	.130	.134	.135	.140	.134	.143	.136	.135	.130	.128	.137	.140	.142	.138	.133
8	.144	.144	.137	.139	.148	.143	.147	.145	.145	.145	.145	.147	.152	.149	.149	.149	.150	.155	.158	.155	.160	.166	.174	.172	.151
9	.172	.169	.172	.168	.169	.171	.156	.151	.151	.150	.149	.149	.140	.137	.135	.137	.140	.135	.134	.136	.140	.148	.154	.147	.150
10	.154	.143	.146	.144	.141	.142	.144	.139	.142	.140	.154	.142	.143	.145	.142	.144	.142	.145	.140	.143	.144	.149	.139	.138	.144
11	.146	.145	.147	.151	.154	.155	.154	.157	.156	.166	.176	.115	.148	.144	.148	.148	.150	.158	.156	.153	.149	.148	.153	.151	.152
12	.148	.140	.141	.141	.152	.148	.152	.160	.157	.168	.147	.173	.162	.163	.166	.166	.167	.167	.176	.157	.152	.152	.158	.152	.157
13	.163	.159	.140	.153	.152	.164	.166	.163	.164	.157	.170	.157	.167	.166	.165	.162	.157	.154	.152	.150	.144	.132	.138	.157	.156
14	.137	.131	.141	.135	.144	.143	.140	.136	.135	.137	.145	.156	.175	.175	.151	.185	.186	.176	.173	.173	.182	.167	.156	.163	.156
15	.169	.170	.170	.171	.172	.170	.176	.178	.182	.183	.183	.181	.180	.182	.182	.181	.182	.186	.186	.190	.195	.186	.186	.189	.180
16	.188	.187	.187	.187	.185	.185	.186	.185	.187	.186	.185	.210	.188	.179	.160	.178	.172	.173	.163	.143	.134	.132	.135	.133	.173
17	.132	.132	.140	.144	.146	.154	.151	.179	.185	.177	.174	.170	.172	.162	.146	.150	.142	.136	.149	.145	.146	.150	.165	.161	.154
18	.165	.166	.165	.161	.163	.164	.173	.177	.176	.166	.171	.162	.161	.169	.168	.171	.171	.175	.175	.174	.174	.179	.169	.175	.170
19	.180	.180	.178	.178	.182	.182	.180	.180	.182	.180	.170	.167	.166	.167	.172	.176	.178	.184	.188	.190	.190	.188	.188	.188	.180
20	.194	.188	.187	.196	.192	.190	.191	.192	.189	.188	.192	.187	.186	.184	.188	.180	.181	.167	.178	.182	.178	.174	.174	.173	.185
21	.160	.165	.161	.155	.157	.155	.153	.136	.136	.133	.137	.142	.145	.156	.150	.133	.137	.152	.167	.177	.151	.160	.163	.163	.152
22	.147	.144	.155	.156	.138	.147	.171	.180	.182	.175	.183	.183	.183	.182	.186	.177	.178	.173	.160	.166	.152	.165	.165	.180	.168
23	.148	.130	.145	.145	.163	.157	.156	.157	.156	.177	.157	.166	.164	.163	.165	.169	.166	.157	.165	.169	.179	.181	.180	.172	.162
24	.158	.160	.163	.169	.158	.157	.162	.176	.171	.167	.152	.165	.165	.165	.147	.147	.145	.150	.150	.157	.135	.123	.125	.113	.153
25	.130	.130	.138	.133	.140	.145	.153	.145	.168	.144	.157	.144	.148	.163	.143	.144	.152	.160	.164	.159	.141	.133	.151	.139	.147
26	.146	.145	.150	.137	.149	.157	.163	.164	.166	.164	.169	.167	.163	.170	.165	.160	.169	.180	.165	.164	.179	.176	.174	.173	.163
27	.174	.180	.178	.178	.173	.176	.177	.173	.173	.177	.180	.186	.181	.186	.185	.186	.181	.185	.184	.180	.176	.181	.177	.159	.179
28	.147	.150	.158	.160	.162	.160	.160	.163	.160	.166	.157	.168	.168	.171	.170	.172	.171	.166	.163	.162	.159	.160	.165	.176	.163
29	.170	.170	.169	.170	.173	.176	.176	.175	.182	.182	.179	.176	.179	.169	.169	.165	.158	.179	.169	.168	.175	.166	.166	.174	.172
30	.177	.180	.180	.177	.177	.153	.161	.168	.165	.153	.158	.158	.161	.157	.172	.162	.161	.162	.165	.154	.159	.162	.164	.168	.164
31	.171	.169	.174	.181	.181	.182	.179	.182	.185	.186	.189	.188	.200	.196	.196	.188	.187	.183	.186	.188	.191	.190	.194	.196	.186
Means	.151	.150	.152	.152	.155	.155	.157	.159	.160	.157	.159	.159	.162	.161	.158	.158	.158	.158	.159	.158	.156	.154	.156	.156	.157

VAPOUR TENSION.

JANUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid-night.	Mean.
1	172	188	180	178	185	182	174	171	153	152	147	146	139	135	164	136	124	120	125	132	142	143	136	134	152
2	136	128	121	100	116	116	113	121	129	101	098	111	125	136	128	115	109	111	109	120	110	107	118	111	113
3	117	119	119	117	120	130	118	130	131	139	129	136	127	128	140	130	137	122	122	132	110	109	120	109	125
4	120	103	112	102	096	105	115	113	119	103	116	116	121	114	125	123	104	109	100	100	100	091	102	100	109
5	095	098	098	107	107	116	117	130	137	138	135	146	148	157	156	156	159	159	155	156	163	151	155	138	136
6	114	121	139	105	104	120	128	128	116	112	119	086	091	100	106	113	107	106	081	106	094	088	089	090	107
7	091	090	089	095	096	100	102	110	113	139	136	139	136	136	158	133	139	130	133	148	171	173	182	182	130
8	182	203	194	186	184	183	181	182	180	183	180	183	184	186	178	177	179	179	182	190	194	194	196	190	186
9	194	206	196	199	190	182	185	182	182	184	188	179	179	186	180	194	186	189	193	194	192	188	188	187	188
10	194	202	178	186	183	183	182	185	184	186	193	194	187	186	184	183	187	186	187	170	176	178	179	183	185
11	185	191	190	188	184	183	186	182	186	191	192	210	191	185	190	187	190	191	178	170	166	174	163	161	184
12	156	154	147	147	142	144	150	157	152	162	163	158	149	157	149	150	145	142	148	167	162	157	155	146	152
13	156	160	171	172	163	172	168	186	177	183	179	176	174	176	167	166	177	176	171	179	177	163	161	160	171
14	158	161	156	155	164	162	148	127	127	128	128	143	133	133	139	144	133	131	129	124	135	116	112	113	137
15	112	108	108	106	114	116	114	107	100	100	100	107	107	108	115	119	125	125	123	126	123	121	117	119	114
16	122	114	113	125	117	116	122	135	131	131	123	127	124	135	136	124	130	132	128	126	126	126	125	127	126
17	126	125	129	117	124	125	159	159	138	147	161	165	158	159	137	134	136	145	149	175	172	177	174	171	148
18	183	187	186	189	194	197	195	208	214	214	212	213	209	210	208	214	210	210	202	192	187	184	186	186	200
19	185	188	186	185	186	186	183	183	186	188	194	192	186	188	184	181	181	181	186	186	182	183	186	177	185
20	178	181	187	183	182	184	186	192	194	196	195	196	194	199	195	195	197	189	191	187	186	185	182	183	189
21	190	188	196	188	202	196	200	196	201	205	202	200	198	201	200	197	195	190	190	187	184	183	183	182	194
22	178	176	177	176	180	180	178	180	179	178	178	178	179	181	182	182	176	183	183	180	183	179	177	181	193
23	178	174	176	174	171	173	176	176	170	176	173	170	153	158	147	158	157	151	157	153	144	147	156	140	163
24	134	138	130	127	128	148	142	132	140	135	147	130	146	142	147	142	145	146	139	136	138	166	143	163	141
25	170	173	172	166	176	176	171	172	143	126	132	136	142	136	142	133	133	123	122	120	119	123	123	128	144
26	126	129	133	129	137	134	148	152	162	149	140	150	149	147	152	154	147	143	148	152	150	151	141	128	144
27	124	124	138	135	129	141	149	160	177	177	187	182	181	182	182	166	169	168	171	169	148	144	143	152	158
28	141	131	130	146	147	155	143	150	133	144	139	137	139	141	141	146	156	155	146	142	150	143	153	152	144
29	145	150	156	149	130	132	133	144	139	136	133	148	148	139	138	140	140	141	141	133	129	128	127	134	139
30	135	136	136	132	136	142	143	149	176	159	164	168	166	162	165	152	149	148	135	137	123	133	139	140	147
31	138	132	110	111	113	112	110	118	116	114	125	127	130	127	127	130	127	128	128	122	111	109	113	127	121
Means	150	151	150	148	148	151	152	155	154	154	155	156	155	156	157	154	153	152	150	152	150	149	149	148	152

VAPOUR TENSION.

FEBRUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mid-night.	Mean.
1	126	129	143	164	167	170	172	172	173	180	176	181	188	192	194	180	172	170	170	167	168	161	173	158	169
2	161	164	179	172	181	175	178	178	164	181	176	170	164	164	161	162	150	150	149	149	141	147	152	152	163
3	150	158	158	162	158	164	166	172	176	172	173	183	181	181	183	183	183	188	192	190	198	199	201	196	178
4	192	191	187	181	177	184	184	191	182	180	178	176	174	179	174	175	178	176	176	177	155	157	166	167	177
5	182	179	181	188	190	186	180	168	158	171	156	162	166	162	167	170	176	180	178	182	187	182	185	188	176
6	188	187	186	185	186	186	195	179	181	186	192	192	190	191	178	163	160	155	153	157	172	163	150	148	176
7	149	139	145	140	145	146	165	166	173	183	183	182	179	174	176	172	151	140	140	159	171	167	168	170	162
8	166	137	141	156	153	163	155	162	172	183	190	165	170	165	162	178	177	171	170	176	177	177	187	195	168
9	194	193	186	184	191	185	188	186	188	185	208	181	168	165	168	168	163	160	168	169	175	167	176	170	179
10	130	118	126	117	128	122	137	150	149	143	167	182	183	182	177	182	183	186	192	196	195	198	191	195	164
11	196	194	187	191	201	200	202	189	190	192	198	197	205	204	266	246	253	209	207	206	205	204	201	198	206
12	190	208	183	176	189	177	182	173	172	168	170	166	170	170	178	171	179	164	161	138	133	123	137	154	168
13	142	143	165	157	147	158	156	142	157	159	158	126	118	122	110	108	125	115	112	117	146	144	156	152	138
14	166	167	143	146	148	160	148	152	163	165	162	164	156	164	157	157	161	171	174	157	128	129	139	155	155
15	121	129	126	121	136	134	101	112	121	116	120	108	122	114	115	118	116	117	120	111	109	104	116	121	117
16	124	122	126	114	122	120	127	149	165	169	170	182	184	185	184	174	178	176	175	169	172	168	168	164	158
17	164	169	162	164	162	158	162	168	153	181	190	186	183	186	190	190	192	193	197	194	221	207	214	199	183
18	224	199	206	184	181	189	192	192	192	193	196	194	194	192	179	167	170	155	146	141	136	136	133	134	176
19	138	136	137	143	137	140	138	138	156	155	157	172	164	178	178	180	185	190	191	190	190	189	188	188	165
20	181	174	175	171	154	168	170	148	157	167	160	159	161	157	146	153	150	159	139	133	144	161	168	163	159
21	161	159	167	165	161	167	169	164	156	155	142	161	166	131	145	159	122	119	122	126	144	123	141	139	148
Means	164	162	162	161	163	164	165	164	167	171	173	171	171	169	171	169	168	164	163	162	165	162	167	166	166

APRIL 1903.

SPECIES OF CLOUD.

	1		2		3		4		5		6	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	K.	...	Str.	...	Str.	...	K. str.	...	K. str.	...	Str.	...
2	Nim.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
3	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Mist	...
4	...	...	...	...	...	...	Str.	...	Str.	...	Str.	...
5	...	...	...	...	K.	...	Str.	...	K. str.	...	K. str. w x n	...
6	Nim.	...	K.	...	...	...	Str.	...	Str.	...	Str., K. str.	...
7	K.	...	K.	...	K.	...	K. str.	...	K. str.	...	K. str.	...
8	K.	...	...	...	...	...	Str.	...	Str.	...	...	Cir. str.
9	K.	...	...	...	...	...	...	...	Str.	...	Str.	...
10	K.	...	K.	...	K.	...	...	...	Str.	...	...	...
11	...	Cir. str.	K.	...	K.	...	Str.	...	Str.	...	Nim.	...
12	Str.	...	Str.	...	Mist	...	Nim.	...	Str.	...	Str.	...
13	Mist	...	Mist	...	K.	...	K.	...	Nim.	...	Nim.	...
14	Mist	...	Str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...
15	K. str.	...	K. str.	...	K. str.	...	K. str.	...	Str.	...	K. str.	...
16	K. str.	...	Str.	...	Str.	...	Nim.	...	Str.	...	Nim.	...
17	K.	...	K.	...	K.	...	...	Cir. w	...	Cir. k. w	...	Cir. k.
18	Fog	...	K.	...	K.	...	Str.	...	Scud nw	...	Scud	...
19	Str.	...	Str.	...	Str.	...	Str. wsw	...	Str.	...	K. str. sw	...
20	K.	...	Str.	...	Str.	...	Nim., fog	...	Str.	...	Str.	...
21	Str.	...	Nim.	...	Str.	...	K. str.	...	K. str.	...	Str.	Cir. s .
22	Nim.	...	Str.	...	Str.	...	Nim.	...	Str.	...	Str.	...
23	Nim.	...	Nim.	...	Nim.	...	Mist	...	Mist	...	Mist	...
24	Nim.	...	Nim.	...	Nim.	...	Mist	...	Mist	...	Mist	...
25	...	...	...	...	...	...	Str.	...	Str.	...	Str.	...
26	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str.	...
27	Nim.	...	K.	...	...	...	Str.	...	Str.	...	Str.	...
28	K.	...	...	...	...	...	...	...	...	...	...	...
29	K.	...	K.	...	K.	...	Nim.	...	Nim.	...	Nim.	...
30	K.	...	K.	...	...	...	...	...	...	...	...	Cir. k.

	13		14		15		16		17		18	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	K. str.	...	K.	...	K.	...	Str.	...	K.	...	K.	...
2	K. str.	...	Str.	...	Str.	...	Str.	...	K. str.	...	Str.	...
3	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	K. w	...
4	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str. w	...
5	K.	...	Str.	...	K.	...	K. str. w	...	K. wnw	...	Nim.	...
6	Nim.	...	Nim.	...	Nim.	...	K. str.	...	K. wnw	...	K.	...
7	K.	...	Nim.	...	Nim.	...	Nim.	...	K. w	...	K.	...
8	K.	...	Nim.	...	K. w	...	Str.	...	K. str.	...	Str.	...
9	K. s	Cir. k. nw	K. sw	...	Nim.	...	K. str.	...	Str.	...	Str.	...
10	K. str.	...	K. str.	...	...	Cir. str. w x n	K. str.	Cir. k.	K. str.	...	K. str.	...
11	K. str.	...	Str.	...	Str.	...	Mist	...	Mist	...	Mist	...
12	Mist	...	Str.	...	Str.	...	Mist	...	Mist	...	Mist	...
13	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
14	K.	...	K. str.	...	K. str. sw	...	K.	...	K. str.	...	K. str.	...
15	K. str.	...	Nim.	...	Nim.	...	Str.	...	K. w	...	K. str.	...
16	K. wsw	...	K.	...	K. w	...	K.	...	K. sw	...	K.	...
17	K.	...	K.	...	K. w	...	K. str.	...	K.	...	K.	...
18	K.	...	K. str.	...	Mist	...	Mist	...	Mist	...	Mist	...
19	...	Cir., cir. k.	...	...	Str.	...	K. str.	...	...	Cir. k.	K.	...
20	...	...	K. str. w	...	Cir. k.	...	Str.	...	Str.	...	Nim.	...
21	Mist	...	Mist	...	Mist	...	Mist	...	Nim.	...	Nim.	...
22	Str.	...	Nim.	...	Mist	...	Mist	...	Nim.	...	Nim.	...
23	K.	Cir.	Str. w	Cir. k.	Str. w	...	Str.	...	K. w	...	...	...
24	Nim.	...	Nim.	...	Nim.	...	Str.	...	Nim.	...	Nim.	...
25	K.	...	K.	...	K. str.	...	K. str.	...	K. str.	...	K.	...
26	K.	...	Nim.	...	Nim.	...	K. str. w	...	K.	...	K.	...
27	K.	...	Nim.	...	Nim.	...	Nim.	...	Nim. wnw	...	K.	...
28	...	w	...	Cir. str.	Str.	...	K. str.	Cir. k.	Nim.	...	K. str.	...
29	...	Cir., cir. str.	K.	...	K.	...	K.	...	Nim.	...	Nim.	...
30	K. str.	...	Str.	...	Str.	...	Str.	...	K. str.	...	...	...

Note.—The direction from which the clouds were moving is shown where observed.

SPECIES OF CLOUD.

APRIL 1903.

7		8		9		10		11		12		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
K. str.	...	K. str.	...	Nim.	...	Nim. sw	...	Nim. sw	...	Str. sw	...	1
Str.	...	K. str.	...	K. str.	...	K. str.	...	K.	...	K.	...	2
Mist	...	Mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	3
K.	...	Nim.	...	K. str.	...	Nim.	...	Nim.	...	Nim.	...	4
Str. w	...	K.	...	K.	...	K.	...	K. str.	...	K.	...	5
Str., K. str.	...	K.	...	K. str.	...	Fog	...	Str.	...	Str.	...	6
K. str.	Cir.	K.	...	K.	...	K. str.	...	Nim. str.	...	Nim. str.	...	7
ws w	...	...	...	...	...	...	...	...	...	...	...	...
K. str.	Cir. str.	K., K. str.	...	K. str. w	Cir. k.	K. w	Cir., cir. k.	K	...	K.	Cir. str.	8
nw x w	...	...	...	...	...	...	...	...	...	...	...	...
Str.	Cir.	Str.	...	K. str.	...	K.	Cir., cir. k.	K. str. s	...	Cir. k.	...	9
...	...	...	Cir., cir. k.	K. str.	...	K. str.	Cir. k.	K.	...	Str.	...	10
Str.	...	Nim.	...	Nim.	...	Nim.	...	K.	...	K.	...	11
Nim.	...	Nim.	...	Str.	...	Str.	...	Str.	...	Str.	...	12
K. str. w	...	K.	...	K. w	...	K.	...	K.	...	Nim.	...	13
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	14
K. str. w	Cir.	K. str. w	...	K. str. w	...	K.	Cir.	Str.	Cir. w x s	K. str.	...	15
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K.	...	16
...	Cir., cir. k.	...	Cir. str.	...	Cir. k.	K. str.	...	K.	...	K.	...	17
Fog	...	K.	...	K. and fog	...	Str.	...	Fog	...	Str.	...	18
Str. wsw	...	Mist	...	K.	...	Str.	...	...	...	K.	Cir., cir. k.	19
Str. sw	Cir. str.	...	Cir., cir. k.	...	Cir., cir. k.	Str.	Cir. str.	...	Cir. w x s	...	Cir.	20
...	...	...	...	...	...	...	...	...	Cir.	...	...	...
Str.	Cir. k.	Mist	...	Mist	...	Mist	...	Mist	...	Mist	...	21
Str.	...	Str.	...	Str.	...	K. str.	...	Str.	Cir. str.	Str.	...	22
Mist	...	Str.	...	Nim.	...	N m.	...	Nim.	...	Str. w	Cir. str.	23
Mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	24
K. str.	...	K.	...	K.	...	K. str.	...	K. str.	...	K. str. wsw	Cir.	25
K. str.	...	K.	Cir.	K. str.	...	K. str.	...	Nim.	...	Nim.	...	26
Str.	...	Str.	...	K.	...	K. str.	...	K.	...	K.	...	27
...	...	...	...	...	...	...	Cir. k.	...	Cir. k.	...	Cir. k.	28
Str.	Cir. k.	K. str.	...	K.	...	...	...	...	...	...	...	29
...	Cir. k.	K.	...	K.	...	K.	...	K.	...	K., K. str.	...	30

19		20		21		22		23		24		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	1
Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	Str.	...	2
Str.	...	K. str.	...	K.	...	K.	...	K.	...	K.	...	3
Str.	...	K. w	...	K.	...	K.	...	...	...	...	...	4
Nim.	...	Nim.	...	Nim.	...	Nim.	...	K.	...	Nim.	...	5
Nim.	...	K.	...	K.	...	K.	...	Nim.	...	K.	...	6
Nim., K.	...	Str., Nim.	...	K. str.	...	K.	...	K.	...	K.	...	7
str.	...	...	...	...	...	...	...	...	...	...	...	...
K.	...	K.	Cir. k.	K. w	Cir. k.	...	...	...	...	K. str.	...	8
Str.	...	K.	...	Str.	...	K.	...	K.	...	K.	...	9
Str.	...	K.	...	K. w	...	K.	...	K.	Cir.	K.	...	10
Mist	...	K. str.	...	K. str.	...	Str.	...	Str.	...	Str.	...	11
Mist	...	Mist	...	Str.	...	Mist	...	Mist	...	Mist	...	12
Nim.	...	Nim. wsw	...	Nim.	...	Nim.	...	Str.	...	Str.	...	13
K. str.	...	K. str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...	14
K.	...	K. str.	...	K.	...	K., K. str.	...	K. str.	...	K. str.	...	15
K. str.	...	K. str.	...	K. str.	...	...	...	...	Cir. str.	K.	...	16
K.	...	K.	...	Fog	...	...	...	...	...	Fog	...	17
Mist	...	Mist	...	Mist	...	K.	...	Str.	...	Str.	...	18
...	...	...	...	...	...	...	...	K. str.	...	K. str.	...	19
Str.	...	Str.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	20
Nim.	...	K. str.	...	Nim.	...	Str.	...	Nim.	...	Nim.	...	21
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	22
...	...	K. str.	...	K.	...	Nim.	...	Str.	...	Nim.	...	23
Nim.	...	K.	...	K.	...	K.	...	Str.	...	Str.	...	24
K.	...	K.	...	...	...	Str.	...	Nim.	...	Str.	...	25
...	...	K.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	26
...	...	...	...	K.	...	K.	...	K.	...	K.	...	27
K. str.	...	Nim.	...	Nim.	...	K.	...	K.	...	K.	...	28
Nim.	...	K.	...	K.	...	K.	...	K.	...	K.	...	29
K.	...	Str.	...	Str.	...	K.	...	K.	...	K.	...	30

MAY 1903.

SPECIES OF CLOUD.

	1		2		3		4		5		6	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	K.	...	K.	...	K.	...	Str.	...	Str.	...	Str.	...
2	K.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
3	Str.	...	Nim.	...	Nim.	...	Nim.	...	Mist	...	Mist	...
4	Str.	...	Str.	...	Str.	...	Fog	...	Str.	...	Fog	...
5	Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str.	...
6	Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	Nim.	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	K.	...	...	...	...	...	...	...	...	...	...	...
9	Str.	...	Str.	...	Str.	...	Mist	...	Mist	...	Mist	...
10	Str.	...	Str., mist	...	Str., nim.	...	Fog	...	Fog	...	Str.	...
11	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
12	...	Cir. st., cir. k.	...	Cir., cir. k.	...	Cir. str.	...	Cir. str.	...	...	...	...
13	...	...	...	...	K. str. s	...	Str.	...	Str.	...	...	...
14	Nim.	...	Nim.	...	Str.	...	Str. sw	...	Str. sw	...	Str. sw	...
15	Str. k.	...	...	...	...	...	ws	...	...	...	...	...
16	Mist	...	Mist	...	Mist	...	Str., mist	...	Mist	...	Mist sw	...
17	...	Cir.	...	Cir. str.	...	Cir. str.	...	...	...	...	...	...
18	Str. k.	...	...	Cir. str.	...	...	K. str. nw	...	K. str. nw	...	Str.	...
19	w x n	...	...	...	...	...	...	...	...	...	...	...
20	Nim.	...	Nim.	...	Nim.	...	K. st. wsw	...	Nim. wsw	...	Nim.	...
21	Nim.	...	K.	...	K.	...	Nim.	...	Str.	...	K. w	...
22	K.	...	K.	...	K.	...	Fog	...	Mist	...	Mist	...
23	K.	...	K.	...	K.	...	...	...	...	...	...	...
24	Str.	...	Str.	...	Str.	...	K. str.	...	K. wnw	...	K. wnw	...
25	...	...	...	...	...	...	Mist	...	K. w	...	K. w	...
26	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	Str.	...
27	...	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
28	...	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
29	Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	Str.	...
30	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	Str.	...
31	Str.	...	Str.	...	Str.	...	Nim	...	Nim.	...	Nim.	...

	13		14		15		16		17		18	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	K.	...	K.	...	K. str.	...	K. str.	...	K.	...	K.	...
2	Nim.	...	Nim.	...	Str.	...	Str.	...	Nim.	...	Nim.	...
3	Nim.	...	Nim.	...	Mist	...	Mist	...	Mist	...	Mist	...
4	Nim.	...	Nim.	...	Fog	...	Nim.	...	Nim.	...	Nim.	...
5	...	Cir. k.	K. str.	...	K. str.	...	Str.	...	Str.	...	Str.	...
6	...	Cir. k.	K.	...	K. str., str.	Cir. k.	Str.	...	Str.	...	Str.	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	K.	Cir. k.	Str.	Cir. k.	Str.	Cir. k.	...	Cir. k.	K.	Cir. k.	...	Cir. k.
9	Str.	...	Str.	...	Mist	...	Fog	...	Str.	Str., fog	Mist	...
10	Nim.	...	Mist	...	Nim.	...	Str., mist	...	Str., mist	...	Mist	...
11	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...
12	...	...	...	...	...	Cir. k.	...	...	...	...	...	...
13	...	...	...	Cir. k.	...	...	...	...	...	...	...	...
14	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
15	K., fog	...	K., fog	...	Mist	...	K.	...	...	K. str. sw	Str.	...
16	...	...	...	...	...	...	...	...	...	...	...	...
17	Str.	...	Nim.	...	Nim.	...	Str.	...	K. str.	...	K.	...
18	K.	...	...	...	Str. w	...	Str.	Cir. str.	Str.	...	Str.	...
19	Str.	...	Mist	...	Mist	...	Mist	...	Str.	...	Nim.	...
20	Str.	...	Str. NW	...	Str. NW	...	Str.	...	Str.	...	Str.	...
21	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
22	K.	...	...	Cir. k.	Str.	Cir. k.	Str.	Cir. k.	...	Cir. str.	K.	...
23	Nim.	...	Nim.	...	Str.	...	Str.	NW x W	Nim.	...	Nim.	...
24	Nim.	...	Mist	...	Nim.	...	Str.	Cir.	Str.	...	Str.	...
25	Nim.	...	K.	...	K.	...	K.	...	K.	...	...	...
26	K.	...	...	Cir. k. s	...	Cir. s	...	...	...	...	...	...
27	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
28	K.	Cir., cir. k.	K. str. w	Cir., str. w	K. str. NW	Cir. str. NW	Str. NW	Cir. str. NW	K. str.	...	Str.	...
29	Nim.	...	Str.	Cir. k.	Mist	...	Mist	...	Mist	...	Str.	...
30	K. str.	Cir. k.	...	Cir.	...	Cir. w	...	Cir. str.	...	Cir. str.	...	Cir. s r.
31	Nim.	...	K. str.	...	Str.	...	K. str.	...	K. str.	...	K. str.	...

SPECIES OF CLOUD.

MAY 1903.

7		8		9		10		11		12		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
Str.	...	Str.	...	K.	...	K.	...	K.	...	K.	...	1
Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	2
Str., nim.	Cir. k.	Str.	...	Nim.	...	Nim.	...	Mist, nim.	...	Mist, nim.	...	3
Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	Str.	...	4
Str.	...	Nim.	...	K. str.	...	K.	Cir. k.	Str.	...	...	Cir. str.	5
Str.	...	Str.	...	K. str.	...	K. wsw	...	K. wsw	...	K. str.	...	6
...	...	...	...	...	...	Cir. k.	...	...	Cir. k.	...	Cir. k.	7
...	Cir.	...	Cir. k.	...	Cir. k.	NW x W	...	...	NW x W	...	NW x W	8
...	...	...	...	...	...	K.	...	...	Cir. st.,	...	Cir. wnw	8
...	...	...	...	...	...	...	...	...	cir. k. NW	...	...	8
Mist	...	Mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	9
Fog	...	Str., mist	...	Mist	...	Mist	...	Mist	...	Mist	...	10
Nim.	...	Nim.	...	Fog	...	Nim.	...	Nim.	...	Nim.	...	11
...	...	...	...	...	...	...	...	...	...	...	...	12
...	Cir. str.	...	Cir. str.	K.	...	Str	...	...	Cir.	Scud	...	13
Str. sw	...	Nim. w	...	Nim.	...	Nim.	...	Nim.	...	Str. wnw	...	14
Str. sw	...	Str.	...	Str.	...	Str. sw	...	Str. sw	...	K. str.	...	15
...	...	...	...	...	...	...	...	...	...	...	...	16
Str.	...	Str.	...	Str.	...	Nim.	...	Nim.	...	Str.	...	17
Nim.	...	Str. sw	...	Nim.	...	Nim.	...	K.	...	...	Cir. ssw	18
Str.	...	Nim.	...	Nim.	...	Str. w	Cir. str.	K. w	...	K. NW	...	19
Mist	...	Str.	...	Str.	...	K. str.	Cir. k.	...	Cir. k. w	Mist	...	20
...	...	...	...	...	...	...	wnw	...	...	...	...	20
K.	...	K.	...	Str.	...	Str.	...	Str.	...	Str.	...	21
K. w	Cir. w	K.	...	K.	...	K.	...	K.	...	K. st. NW x w	...	22
Str.	...	Mist	...	Mist	...	Mist	...	Mist	...	...	...	23
Mist	...	Mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	24
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	25
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	26
Str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	27
Str.	...	Nim.	...	Nim.	...	K.	Cir. k.	K. str.	...	K. str.	...	28
Nim.	...	Nim.	...	Str. sw	...	Nim.	...	Nim.	...	Str. s	...	29
Str.	...	Nim.	...	Str.	...	K. str.	...	K. str.	...	...	Cir.	30
Nim.	...	Nim.	...	Nim. wnw	...	Nim.	...	K.	...	K. str. w	Cir. str.	31

19		20		21		22		23		Midnight.		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
K.	...	Nim.	...	...	...	Nim.	...	...	...	K.	...	1
Nim.	...	Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	2
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	3
Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	4
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	5
Str.	...	K.	...	K.	...	...	...	...	...	...	...	6
K	...	K.	...	K. NW	...	K. NW	...	K. NW	...	K.	...	7
Str.	...	Str., mist	...	Str., mist	...	Str., mist	...	Str., mist	...	Str.	...	8
Fog	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	9
K. str.	...	Str.	...	...	Cir. str.	...	Cir. str. s	...	Cir. str.	...	Cir., cir. str.	10
...	...	...	...	...	...	...	...	...	...	...	...	11
...	...	Scud	...	...	...	K. sw	...	K. s	...	K. s	...	12
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. sw	...	13
Str.	...	K. str.	...	...	Cir. k.	...	Cir. str.	...	Cir., cir. st.	Mist	...	14
...	...	...	...	...	...	...	...	...	...	...	Cir.	15
...	...	...	...	K. str.	...	Str. NW	...	K. str. NW	...	K. str. NW	...	16
Str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	17
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	18
Str.	...	Str.	...	Str.	...	K.	...	K.	...	K.	...	19
K.	...	...	...	K.	...	K.	...	K.	...	K.	...	20
Nim.	...	Nim.	...	Mist	...	Str.	...	Str.	...	Nim.	...	21
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	22
Nim.	...	Nim.	...	Nim.	...	K.	...	K.	...	K.	...	23
Str.	...	K.	...	K.	...	Str.	...	Str.	...	Str.	...	24
...	...	...	...	...	...	Str.	...	Str.	...	Nim.	...	25
...	...	...	...	...	...	...	...	...	...	...	...	26
Str.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	Str.	...	27
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	28
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	29
Str.	...	K.	...	Str.	...	Str.	...	Str.	...	Str.	...	30
Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	31

JUNE 1903.

SPECIES OF CLOUD.

	1		2		3		4		5		6	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	Nim.	...	Str.	...	Nim.	...	Nim.	...	Str.	...	Str.	...
2	Nim.	...	Mist	...	Mist	...	Nim.	...	Str.	...	Mist	...
3	...	...	K. str.	...	Nim.	...	...	...	Str.	...	Str.	...
4	Str. k.	...	...	...	...	...	Str.	...	Str.	...	...	...
5	Str.	...	Str.	...	...	...	...	...	...	...	...	...
6	Str.	...	Nim.	...	Nim.	...	Str.	...	Nim. str.	...	Nim.	...
7	Nim.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...
8	...	...	...	...	Mist	...	Mist	...	Str.	...	Mist	...
9	K.	...	K.	...	K.	...	Str., nim.	...	Nim.	...	Str., nim.	...
10	...	...	...	...	...	...	...	...	...	Cir. str.	...	...
11	Nim. w	...	K. w	...	Nim. w	...	K. w	...	K. w	...	K. w	...
12	K. w	...	K.	...	...	...	...	Cir. k. w	Str. nw	...	Mist	...
13	Nim.	...	Nim.	...	Nim.	...	Str.	...	K. str.	Cir. k. nw	Nim.	...
14	Cir. k. w	...	K.	...	K. nw	...	Str.	...	K.	...	K. w x s	...
15	K.	...	K.	...	K.	...	K. str.	...	K. str.	...	Nim.	...
16	K.	...	K.	...	K.	...	...	Cir. str.	Str.	...	K. str.	...
17	Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	K. sw	...
18	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	Str.	...	K.	...	K. str.	...
21	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	Mist	...	Str.	...	Str.	...	Str.	...
25	Nim.	...	Nim.	...	Nim.	...	Str.	...	Nim.	...	Str.	...
26	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...
27	Str., mist	...	Str., mist	...	Str.	...	Str.	...	...	...	...	...
28	Str., mist	...	Str., mist	...	...	...	Str.	...	Mist.	...	Mist	...
29	Str.	...	Str.	...	Str.	...	Fog	...	Fog	...	Fog	...
30	Str., mist	...	Str., mist	...	Str., mist	...	Nim.	...	Nim.	...	Nim.	...

	13		14		15		16		17		18	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	K. str.	Cir. k. w	Str.	...	Str.	...	Str.	...	Mist	...	Str.	...
2	...	...	...	...	K. str.	...	Str.	...	Nim.	...	Nim.	...
3	K.	...	Str.	...	Str.	...	...	Cir. k. nw	K.	...	...	...
4	Nim.	...	K. str. s.	...	Nim.	...	...	Cir. k. s	K.	...	Str.	...
5	K. str.	...	...	...	Cir. str.	...	...	...	...	...	...	Cir. str.
6	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
7	K.	...	...	...	Str.	...	...	...	...	...	...	...
8	K. str.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	Nim.	...
9	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
10	K. str.	Cir. k.	Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...
11	Str.	...	Nim.	...	Str., mist	...	Nim.	...	Str.	...	Str.	...
12	Str.	...	Str.	...	Nim.	...	Str.	...	Str.	...	Str.	...
13	K.	...	K. str.	...	Mist	...	K. str.	...	Str.	...	Str.	...
14	K.	...	...	...	...	...	...	...	...	...	...	...
15	K. str.	...	K. str.	Cir. wnw	K. w	Cir. w	...	Cir. k. w	...	...	...	...
16	...	...	...	...	Str.	...	...	...	...	...	...	...
17	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
18	...	...	...	...	...	...	...	...	...	...	K.	...
19	...	...	K.	...	K.	...	K.	...	K.	...	Nim.	...
20	K. str.	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...
22	...	Cir. str.	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
23	...	Cir. cir. k.	...	Cir. str., cir.	Str.	...	Str., mist	...	Nim.	...	Nim.	...
24	Mist NNE	...	Str.	K. str. NE	Str.	...	Str.	...	Str.	...	Nim.	...
25	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
26	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
27	Nim.	...	K. str.	...	Scud sw	...	Str.	...	K.	...	K.	...
28	K.	...	Str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...
29	Nim.	...	K., K. str.	...	K.	...	K. str.	...	K.	...	Nim.	...
30	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...

SPECIES OF CLOUD.

JUNE 1903.

7		8		9		10		11		12		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
Str.	...	K. str.	...	K. str.	...	K. str.	...	Nim.	...	Str.	Cir. k. w	1
Nim.	...	Nim.	...	K.	...	K.	...	K. str.	...	K. w	...	2
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	...	...	3
...	...	K.	...	K. str.	...	K.	...	Nim.	...	Nim.	...	4
...	...	...	...	...	...	...	...	Str.	Cir.	...	Cir. k. nw	5
Str.	...	K. str.	...	K. str.	...	Str.	...	Nim.	...	Nim.	...	6
...	...	K.	...	K.	...	K.	...	K.	...	K.	...	7
Mist	...	...	...	Mist	...	...	...	K. str.	...	Nim.	...	8
Nim.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	9
...	...	K. str.	...	K. str.	...	Str.	...	Str.	...	Str. k.	...	10
K. nw	...	K. str.	...	Str.	...	Str.	...	Str.	...	Str.	...	11
Mist	...	Mist	...	Str.	...	K. str.	...	Str.	...	Str.	...	12
Nim.	...	Fog	...	K. str.	...	K.	...	K.	...	Str.	...	13
K.	...	K. str.	...	K. str.	...	Nim.	...	K. nw	...	Str.	...	14
...	...	K.	...	K. str.	...	K.	...	K. str.	...	Cir. k. wnw	...	15
Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	Cir. str. w	Cir. str. w x s	...	16
K. str.	...	K. str.	Cir. k.	K. str.	...	Nim.	...	Nim.	...	Nim.	...	17
w x s	...	...	...	...	...	...	Cir. str.	...	Cir. str.	...	Cir. str.	18
...	...	...	...	...	...	K. sw x s	...	...	...	...	...	19
K. str.	...	...	...	...	...	K.	...	Str.	...	Str.	Cir. str.	20
...	...	...	Cir. str.	...	Cir. str.	...	K.	K. str.	...	...	...	21
Str.	...	K. sw	...	...	Cir. str. sw	...	Cir. k.	...	Cir. k.	Str.	Cir. str.	22
...	...	...	...	...	...	...	Cir. str.	...	Cir. str.	...	Cir. str.	23
Str.	...	Str.	...	Str.	...	Str., mist	...	Str., mist	...	Str.	...	24
Str.	...	Str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	25
Str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	26
...	...	Scud	Cir. k.	Scud	Cir. k.	Scud	Cir. k.	Str.	...	Str.	Cir. sw	27
Nim.	Cir. str.	K. str.	...	Nim.	...	Nim.	...	Nim.	...	K. str.	Cir.	28
Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Nim.	...	29
Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	30

19		20		21		22		23		Midnight.		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	1
Nim.	...	Nim.	...	Str.	...	K. w	...	K. w	...	...	...	2
K. wnw	...	K.	...	K. wnw	...	Str.	...	Nim.	...	Str.	...	3
Str.	...	Str.	...	Str.	...	Str.	...	Str. k.	...	Str.	...	4
...	Cir. str.	...	Cir. k.	...	...	...	...	K. w	...	Str. k.	...	5
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	6
...	...	...	...	...	...	...	...	...	...	...	...	7
Str.	...	Str.	...	Str.	...	K.	...	K.	...	K.	...	8
Nim.	...	Nim.	...	K. wnw	...	K. str.	...	K. str. wnw	...	...	Cir. k.	9
Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. w	...	Nim.	...	10
Str.	...	K.	...	K.	...	K. w	...	K. w	...	K.	...	11
N m.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	12
K.	...	Str.	...	Str.	...	K.	...	K.	...	K.	...	13
K.	...	K.	...	Nim.	...	K.	...	K.	...	K.	...	14
...	...	...	...	...	...	...	...	...	Cir. k.	...	Cir. str.	15
...	...	...	...	...	...	...	...	Str.	...	...	...	16
N m.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	17
K.	...	...	...	...	...	...	...	...	...	...	...	18
K.	...	...	...	...	...	...	...	...	...	...	...	19
...	...	...	...	...	...	...	...	...	...	...	...	20
...	...	...	...	...	...	...	...	...	...	...	...	21
Nim.	...	K.	...	Nim.	...	Str.	...	Str.	...	...	...	22
Nim.	...	Str.	...	K.	...	Nim.	...	Nim.	...	Nim.	...	23
Nim.	...	Nim.	...	Nim.	...	Mist	...	Nim.	...	Nim.	...	24
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	25
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	26
K.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	27
K.	...	K.	...	K.	...	Str.	...	Str.	...	Str., mist	...	28
Str.	...	Str., mist	...	Str., mist	...	Str., mist	...	Str.	...	Str., mist	...	29
Nim.	...	im.	...	Nim.	...	Str.	...	Str.	...	...	...	30

JULY 1903.

SPECIES OF CLOUD.

	1		2		3		4		5		6	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	...	...	...	...	...	...	Str.	...	Str.	...	Fog	...
2	Str., mist	...	Str., mist	...	...	...	...	...	...	...	...	...
3	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
4	...	Cir. str.	K.	...	...	...	...	...	...	...	Str.	...
5	K. wsw	...	K. wsw	...	...	...	...	...	...	...	...	...
6	Str. sw	...	Str. k. ssw	...	Str. k. ssw	...	Str.	...	Str.	...	Str.	...
7	K. NW	...	K. str.	...	Str. NW	...	Str.	...	Str.	...	Str.	...
8	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...
9	Str.	...	Str., mist	...	Str., mist	...	Fog	...	Nim.	...	K. str.	...
10	Nim.	...	Nim.	...	Str.	...	Str.	...	Nim.	...	Nim.	...
11	Str. k.	...	K. sw	...	K. sw	...	K. sw	...	K. sw	...	Str.	Cir. str. NW.
12	Nim.	...	Nim.	...	Str.	...	Nim.	...	Mist	...	Mist	...
13	Nim., mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
14	K. str. WNW	...	K. str.	...	K. str.	...	Fog	...	Str.	...	K. wsw	...
15	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Mist	...
16	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
17	Str.	...	K. str.	...	K.	...	Str.	...	K. str.	...	K.	...
18	Str.	...	K. str.	...	K. str.	...	Str.	...	K. str.	...	K. str.	...
19	Str.	...	Str.	...	Str.	...	Fog	...	Str.	...	Str.	...
20	Str.	...	Nim.	...	Str.	...	Str.	...	Str.	...	Fog	...
21	Str.	...	Str.	...	Str.	...	Fog	...	Str.	...	Str.	...
22	Nim.	...	Str.	...	Str.	...	Str.	...	Nim.	...	...	...
23	Str.	...	Str.	...	Str.	...	Mist	...	Mist	...	Mist	...
24	K.	...	...	...	...	...	...	...	K. str.	...	K. str.	...
25	Str.	...	...	...	...	...	...	...	...	...	K.	...
26	Nim.	...	Str.	...	Str.	...	Str.	...	Str.	...	K.	...
27	...	...	K. str.	...	K. str.	...	Str., nim.	...	Nim.	...	Nim.	...
28	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Mist	...
30	...	...	Str.	...	Nim.	...	Mist	...	Nim.	...	Nim.	...
31	Nim.	...	Nim.	...	Str.	...	Fog	...	Fog	...	Str.	...

	13		14		15		16		17		18	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	Nim.	...	Nim.	...	K. w x N	Cir. k.	Nim.	...	K. NW	...	...	...
2	K.	...	Str. WNW	...	Str. w	Cir.	K. str.	...	Str.	...	Nim.	...
3	Nim.	...	K.	...	K.	...	Scud	...	K. w	...	K. w	...
4	K.	...	Str., K. str.	...	Str.	...	Str.	...	Nim.	...	Nim.	...
5	Nim.	...	Str.	...	Str.	...	K.	...	Str.	...	K. str.	...
6	...	...	...	Cir. str.	...	Cir. str.	K. str.	Cir. str.	K. str.	...	K. str.	...
7	K.	...	Str. w	Cir. str.	K., K. str. w x N	...	Str.	Cir. str.	K. wsw	...	K. str., k.	...
8	K. str.	...	...	Cir. k. w	...	Cir. str.	...	...	...	...	...	...
9	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str.	...
10	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...
11	Nim.	...	K. str., str.	...	K. str. NE	...	Nim., str.	...	K.	...	K.	...
12	K. str.	...	Str.	...	Mist	...	K.	...	Str.	...	K.	...
13	Nim.	...	Str., nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
14	Nim.	...	Nim.	...	Str.	...	K. w	...	K. str.	...	K.	...
15	K.	...	Str.	...	Str.	...	Str.	...	K. str.	...	Str.	...
16	Nim.	...	Str.	...	K. str.	...	K. str.	...	K. str.	...	...	...
17	...	...	...	...	...	...	...	...	K.	...	K.	...
18	Nim.	...	Str.	...	K. str.	...	K.	...	Str.	...	K.	...
19	K. str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	Str.	...
20	Str.	...	Str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...
21	...	...	...	...	...	...	K.	...	K.	...	K.	...
22	...	Cir.	...	Cir. str.	...	Cir. str. WNW	...	Cir. str.	Str.	...	Str.	...
23	K.	...	Str.	Cir. str.	...	Cir. str.	K.	...	K.	...	...	...
24	Str.	...	K. str. w	...	Str. k.	...	Str.	...	K. str.	...	...	...
25	K. str.	...	Str.	...	Str. k. s	...	Nim.	...	K. str.	...	Nim.	...
26	Str.	...	K. wsw	...	K. wsw	...	K.	...	K. str.	...	K. str.	...
27	K. w	...	K.	...	...	...	...	...	...	...	...	...
28	K. str. WNW	...	Str.	...	K. w	...	K., K. str.	Cir. k. w x N	K. w	...	...	...
29	Str.	...	K.	...	K. str., mist	...	K. str., str.	...	K. ssw	...	K.	...
30	Str.	...	Str.	...	Str.	...	Str.	...	K.	...	K.	...
31	Str.	...	Str.	...	Nim.	...	Str.	...	Str.	...	Str.	...

SPECIES OF CLOUD.

JULY 1903.

7		8		9		10		11		12		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
Str.	...	Str., mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	1
...	...	...	...	...	...	K.	...	Str.	...	K. nw	...	2
Str.	...	K. str.	...	K. str.	Cir. k.	K. str.	...	Str.	...	Str. w	...	3
Str.	...	K. sw	...	K.	...	K. str.	...	Str.	...	Str.	...	4
...	...	K.	...	K.	...	K.	...	K.	...	Str.	...	5
K.	...	K. str.	...	...	...	Str.	...	Str.	...	Str.	...	6
Str.	...	Nim.	...	K. str.	...	Str. w	...	Str. w	Cir. str.	Str.	...	7
Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	8
Str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...	Str.	...	9
Nim.	...	Str.	...	Str.	...	Nim.	...	Nim.	...	Str.	...	10
...	...	K. str.	Cir.	K. str. s	...	Str.	...	Nim.	...	Str.	...	11
Str.	...	Str., mist	...	Str., mist	...	Str., mist	...	Str.	...	Str., mist	...	12
Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Mist, nim.	...	13
Nim.	...	K. w x s	...	K.	...	Nim.	...	Str.	...	Str.	...	14
K. str., fog	...	Str.	...	Str., K. str.	...	Str.	...	Str.	...	Nim.	...	15
K. str., fog	...	K. str.	...	Str.	...	Nim.	...	Str.	...	Str.	...	16
K.	...	...	...	...	...	...	...	...	...	...	...	17
Str.	...	K. str.	...	K.	...	Nim.	...	Nim.	...	Nim.	...	18
Str.	...	Str.	...	Str.	...	Str.	...	K.	...	K.	...	19
Nim., mist	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	20
Str.	...	K.	...	K.	...	K.	Cir. nw	...	Cir. str.	...	...	21
Str., nim.	...	K.	...	K.	...	...	Cir. str.	...	Cir. str.	...	Cir. str. w	22
Mist	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str. nw	...	23
Str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Str. w x n	...	24
K.	...	K. wnw	...	K.	...	K. str.	...	Str.	...	Str.	...	25
Str.	...	K. w x s	...	K.	...	Str.	...	Str.	...	Str.	...	26
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	27
...	...	...	Cir. k., cir.	K. str.	...	...	Cir. str.	...	Cir. str.	Str.	...	28
Nim.	...	Nim.	...	Nim.	...	K.	...	Nim.	...	Str. sw	...	29
Fog	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	30
K. str.	...	K. s	...	K.	...	Str.	...	K. s	...	Str.	...	31

19		20		21		22		23		Midnight.		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
K.	...	...	...	...	...	...	...	K. w	...	Str.	...	1
Str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...	Str.	...	2
K. w	...	K.	...	K.	...	K.	...	K.	...	K. sw	Cir. str.	3
K.	...	K.	...	K.	...	K. w x s	...	K. wsw	...	K. wsw	...	4
K.	...	K.	...	K.	...	Str. wsw	...	Str. wsw	...	Str. sw x w	...	5
Nim.	...	Nim.	...	Str.	...	Str.	...	Nim. nw	...	Str., K.	...	6
K., K. str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	7
...	Cir. k.	...	Cir. k	...	...	...	...	...	...	K.	...	8
Nim.	...	Nim.	...	Nim.	...	Str. n	...	Str.	...	Str.	...	9
K. wsw	...	K. wsw	...	K. wsw	...	K. wnw	...	Str. sw	...	Str. sw	...	10
Str.	...	Nim.	...	Nim.	...	Nim. str.	...	Nim. str.	...	Nim.	...	11
Str.	...	Str.	...	Str., mist	...	Mist	...	Mist	...	Mist	...	12
Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str. w	...	K. str.	...	13
K. str.	...	K.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	14
K. str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	15
...	...	K.	...	K.	...	Str.	...	Str.	...	Str.	...	16
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	17
Str.	...	K.	...	Str.	...	Str.	...	Str.	...	Str.	...	18
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	19
Nim.	...	Nim.	...	Nim.	...	Str.	...	Nim.	...	Nim.	...	20
...	...	Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	21
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	22
...	...	...	...	...	...	K.	...	K.	...	K.	...	23
...	...	...	...	...	...	...	...	Str.	...	Str.	...	24
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	25
K. str.	...	...	...	K.	...	K.	...	Nim.	...	K. str.	...	26
Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	...	...	27
K.	...	Nim.	...	K.	...	...	...	...	...	...	...	28
K.	...	K.	...	...	...	...	...	K. str.	...	...	...	29
Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	30
K.	...	K.	...	Str.	...	K. scud	...	K. str.	...	Str.	...	31

AUGUST 1903.

SPECIES OF CLOUD.

	1		2		3		4		5		6	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	Str.	...	Str.	...	Str.	...	Fog	...	Fog	...	K. str., fog	...
2	...	...	K.	...	Nim.	...	Fog	...	Fog	...	...	...
3	Mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
4	...	...	K.	...	K. wsw	...	Scud	...	...	...	...	...
5	K. str.	...	K. str.	...	K. str.	...	Fog	...	Nim	...	Nim.	...
6	K. str.	...	K. str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
7	Nim.	...	K.	...	K	Cir.	Str. sw	...	Str. sw	...	Str. sw	...
8	K.	...	K.	...	K. sw	...	Str. sw	...	Str.	...	...	...
9	K. str. N	...	K. str.	...	K. str.	...	Str.	...	Str.	...	Str.	...
10	Nim.	...	Nim.	...	Nim. NE	...	K. NE	...	Nim.	...	Mist	...
11	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Mist	...	Mist	...
12	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Mist	...	Mist	...
13	K.	...	K.	...	K.	...	...	Cir. str.	...	Cir. str.	...	Cir. haze
14	Nim.	...	K.	...	K.	...	Str.	...	Str.	...	Str., K. str.	...
15	K. str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
16	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
17	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
18	Nim.	...	Str.	...	Nim.	...	Scud	...	Str.	...	K.	...
19	Str.	...	Str.	...	...	...	Str., fog	...	Nim.	...	Nim.	...
20	K. str.	...	Nim.	...	K. str.	...	Nim.	...	Nim.	...	K.	...
21	Nim.	...	Nim.	...	K.	...	...	...	...	...	...	Cir, cir. str.
22	K.	...	K.	...	K. str.	...	Mist	...	Mist	...	Str.	...
23	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
24	Mist	...	K. str.	...	K. str.	...	Mist	...	Mist	...	Str.	...
25	K.	...	K.	...	K.	...	Nim.	...	Nim.	...	K. str.	...
26	K. str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...	K.	...
27	K.	...	...	...	...	...	Str.	...	Str.	...	Str.	...
28	...	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
29	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
30	Nim.	...	Nim.	...	Nim.	...	...	Cir. str., cir. haze	Str.	...	Str.	...
31	Str.	...	Nim.	...	Nim.	...	Fog	...	Str.	...	...	Cir. k.

	13		14		15		16		17		18	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	...	...	...	...	Str. NW	...	Str. NW	...	Str. NW	...	Str. NW	...
2	...	...	...	...	...	...	...	...	...	...	...	...
3	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
4	...	Cir., cir. str. sw	...	Cir. str.	Str. sw	Cir. str.	Nim.	...	Nim.	...	Nim.	...
5	K. str., cir. str.	...	K. str.	...	K. str.	...	K. str.	...	Scud, K. str.	...	K. str.	...
6	K., K. str.	...	Str. w	...	Str. w	...	Nim.	...	Str., mist	...	Nim.	...
7	Nim.	...	K.	...	K. str. sw	...	K., K. str.	...	K.	...	K. sw	...
8	...	Cir.	...	Cir.	...	Cir. sw	...	Cir. str.	...	Cir. str.	...	Cir. str.
9	Nim.	...	Nim.	...	Mist	...	Nim.	...	Nim.	...	Nim.	...
10	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
11	Nim.	...	Mist, str.	...	Nim. str.	...	Nim.	...	Nim.	...	Scud	...
12	...	Cir., cir. k.	...	...	...	Cir. w	...	Cir.	K. str.	...	K.	...
13	Str.	...	K. w	...	...	Cir.	...	Cir. str.	...	Cir. str.	...	...
14	K. str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
15	Str.	...	Str.	...	Str.	...	Str.	...	Str., mist	...	Str., mist	...
16	Str.	...	K. str.	...	K. str.	...	Str.	...	K. str.	...	Str.	...
17	K. str.	...	Str.	...	K. str.	...	Str.	...	K., K. str.	...	Nim.	...
18	K.	...	K. str.	...	K. w x s	...	K.	...	K. str.	...	K.	...
19	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
20	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...
21	...	...	...	...	...	...	...	...	Scud	...	Scud	...
22	K. str.	...	Str.	...	Str.	...	K. str.	...	K.	...	Str.	...
23	Nim.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
24	Mist	...	Mist	...	Mist	...	Mist	...	Nim.	...	Nim.	...
25	Str.	...	Str.	...	K. sw	...	Str.	Cir. str.	K., nim.	...	K., nim.	...
26	...	Cir.	...	...	...	...	...	...	...	...	K.	...
27	Nim.	...	Nim.	...	Str.	Cir. NE	Str.	...	K. str.	...	Str., nim.	...
28	Nim.	...	Nim.	...	Nim. k.	...	Nim.	...	Nim.	...	Nim.	...
29	Nim.	...	Nim.	...	K.	Cir. k.	...	Cir.	K., K. str.	...	K., K. str.	...
30	Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Nim.	...
31	Str.	...	Nim.	...	Str.	...	...	Cir. k., cir. str. NW	K., K. str.	...	K. str.	...

SPECIES OF CLOUD.

AUGUST 1903.

7		8		9		10		11		12		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
...	Cir. k.	...	Cir.	...	Cir. k. ssw	...	...	...	...	...	...	1
Mist	Cir. k. sw	Nim.	...	Nim.	...	Nim. NW	...	Str., mist	...	Str. w	...	2
Scud wsw	Cir. k. sw	K.	...	K.	...	K. sw	...	Str. sw	...	...	Cir. str.	3
Nim.	...	Str., mist	...	Str.	...	K. str., cir. str.	...	K. str. NW	...	...	Cir. str.	4
Nim.	...	Str.	...	Str., mist	...	Nim.	...	Str.	...	Str.	...	5
Str. sw	...	Str.	...	Str. sw	...	Str. sw	...	Str. sw	...	K. str.	...	6
Str.	...	...	Cir. str.	K. str.	...	...	Cir. str.	...	Cir.	...	Cir. sw	7
Str.	...	Str.	...	Nim.	...	Mist	...	Mist	...	Str.	...	8
Mist	...	Mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	9
Mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	10
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	11
K. str.	Cir. k.	Str.	...	Str.	Cir. str.	Str.	...	Str.	Cir. str.	Str.	Cir. str.	12
Str.	...	Str.	...	K.	...	...	Cir. str.	...	Cir. NW	...	Cir. str., cir. k. NW x N	13
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	14
Str.	...	Str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...	15
Nim., K. str.	...	K., K. str.	...	Str.	...	Str.	...	Str., scud	...	Str.	...	16
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim., str.	...	Str.	...	17
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	18
K. str.	...	K. str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...	19
...	Cir. k.	K.	...	K.	...	...	...	...	...	...	...	20
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	21
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	22
Mist	...	Mist	...	Str.	...	Mist	...	Mist	...	Mist	...	23
Str.	...	Scud	Cir. s	K. str.	...	Nim.	...	Str.	...	Nim.	...	24
...	Cir. k. wsw	Str.	Cir. str.	...	Cir. wsw	...	Cir., cir. k.	...	Cir. str.	...	Cir. str.	25
Str., nim.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	K. str.	...	26
Nim.	...	Nim.	...	Nim.	...	Nim., str.	...	Nim.	...	Nim.	...	27
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	K.	...	28
Str.	...	Str.	...	Str.	...	Str. SE	...	Str.	...	Str.	...	29
Str.	...	Str.	...	Str.	...	Str.	...	K. str. s	...	Str.	...	30
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	31

19		20		21		22		23		Midnight.		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
Str. NW	...	Str. NW	...	K.	...	K.	...	K.	...	...	...	1
K. NW	...	K. NW	...	K. NW	...	Str.	...	K.	...	Mist	...	2
Str.	...	Nim.	...	K. wsw	...	K.	...	K. wsw	...	K.	...	3
Nim.	...	Nim.	...	Nim.	...	K. str.	...	K. str.	...	K. str.	...	4
K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	5
K. str.	...	K.	...	K. str.	...	Nim.	...	K. w	...	Nim.	...	6
K.	...	K. sw	...	K. sw	...	K.	...	K.	...	K.	...	7
...	Cir.	...	Cir. k.	...	Cir., cir. str.	K. wsw	...	K. str. NW	...	K. s	...	8
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	9
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	10
Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	11
...	...	...	...	K.	...	K.	...	K. NW	...	K. NW	...	12
...	...	K.	...	K.	...	K.	...	K.	...	K.	...	13
K. str.	...	K. str.	...	Str.	...	Str.	...	Str.	...	Str.	...	14
Str., mist	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	15
Str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...	Str.	...	16
Nim.	...	Nim.	...	Nim.	...	K.	...	K.	...	...	...	17
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	18
Nim.	...	Nim.	...	K. str.	...	Str.	...	K. str.	...	K. str.	...	19
Nim.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	Nim.	...	20
...	...	...	...	...	...	...	...	...	...	...	...	21
Str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	22
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	23
Str.	...	K.	...	K.	...	K.	...	K.	...	K.	...	24
Nim.	...	Nim.	...	K.	...	K.	...	K. str.	...	K. str.	...	25
...	...	...	...	K.	...	...	...	...	...	K. str.	...	26
Str.	...	Str.	...	Nim.	...	Nim.	...	K.	...	Nim.	...	27
Str., k. nim.	...	Str., nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	28
...	Cir., str., cir. haze	K.	...	K.	...	K. str.	...	Nim.	...	Nim.	...	29
K.	...	K.	...	K. str.	...	K. str.	...	K. str.	...	Str.	...	30
Str.	...	Str.	...	Str.	...	K. str.	...	Str.	...	Str.	...	31

SEPTEMBER 1903.

SPECIES OF CLOUD.

	1		2		3		4		5		6	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
2	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...
4	K. ssw	...	K.	...	K.	...	Scud	Cir. str.	Scud	Cir.	Scud	...
5	K. sw	...	K.	...	K.	Cir. k.	K.	Cir. str.	...	...	K., K. str.	Cir. str.
6	K. wsw	Cir. k.	K.	...	K., K. str.	...	Str.	...	Str., K. str.	...	K. str.	...
7	K. sw	...	K.	...	K. sw	...	Str., K. str.	Cir. k.	K. str.	...	Str.	...
8	...	...	...	...	...	...	...	...	...	...	...	...
9	...	Cir. k.	...	...	...	Cir. k.	...	Cir. k.	...	Cir. str.	...	Cir., cir. str.
10	Str.	...	Nim.	...	Nim.	...	Nim.	...	Mist	...	Mist	...
11	Nim.	...	Nim.	...	K. str.	...	K.	...	K.	...	K.	...
12	K. scud	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
13	Nim.	...	Nim.	...	Str., mist	...	Str.	...	Str.	...	Str.	...
14	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	Nim.	...
15	K. str.	...	Str.	...	K. str.	...	Str.	...	Str.	...	K. str.	...
16	...	...	...	...	...	...	...	...	...	Cir. k. sw	K. str.	Cir., cir. k.
17	...	...	...	...	...	...	Str.	...	Str.	Cir. k.	K. str.	sw x s Cir. k.
18	K.	...	Str.	...	Str.	...	Fog	...	Fog	...	Nim.	...
19	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str.	...	...	Cir., cir. k.
20	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Fog	...	Scud sw	ws Cir.
21	...	...	...	...	...	...	...	...	...	...	...	Cir. str.
22	...	Cir.	...	...	K. str.	...	...	Cir. str.	...	Cir. str.	...	Cir. str., cir. k.
23	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
24	...	...	...	...	...	...	...	...	...	...	...	Cir. str.
25	Str.	...	Nim.	...	Nim.	...	Str.	...	Nim.	...	Nim.	...
26	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
27	K.	...	K.	...	K. str.	...	K. str.	...	Str.	...	Str.	...
28	Str.	...	Str.	...	Str.	...	Nim.	...	Str.	...	Str.	...
29	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
30	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...

	13		14		15		16		17		18	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	Str.	...	Str.	...	Str.	...	Str.	...	K. str.	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...
3	Nim.	...	Nim.	...	Str. sw	...	K.	...	K.	...	K.	...
4	...	...	...	...	...	Cir. ssw	...	Cir. ssw	...	Cir.	...	...
5	K.	...	K.	...	K.	...	Scud	Cir.	Scud	Cir.	K.	...
6	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
7	K.	...	K.	...	K. str.	...	K.	...	Scud	...	Scud	...
8	...	...	...	...	...	...	...	...	...	...	...	Cir. str.
9	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	K. str.	...
10	Mist	...	Mist	...	K.	...	K.	...	K. str.	Cir. k.	K. str.	...
11	Str., mist	...	Mist	...	Mist	...	Mist	...	Mist	...	Str., mist	...
12	Str.	...	Nim.	...	Str., K. str.	...	Str., K. str.	...	Nim.	...	Nim.	...
13	K. str.	...	Str. k.	...	Str.	...	K., K. str.	...	Str. k. sw	...	Str. k.	...
14	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
15	K. str., nim.	...	Str.	...	Str.	...	Str.	...	K. str.	...	Str.	...
16	K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	Nim.	...
17	K.	Cir. k., cir.	Str. sw	Cir. str. sw	...	Cir. k. sw	...	Cir. k.	...	Cir., cir. str.	...	Cir. str.
18	Str., mist	...	K.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...
19	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
20	...	...	...	Cir.	...	...	...	...	...	Cir. str.	...	Cir. haze
21	...	Cir., cir. k.	...	Cir., cir. k.	...	Cir., cir. k.	...	Cir., cir. k.	...	Cir. str.	Str.	Cir. str.
22	...	Cir. str.	...	Cir., cir. str.	...	Cir., cir. str.	...	Cir. str.	...	Cir. str. s	...	Cir., cir. str.
23	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
24	...	Cir.	...	Cir., cir. str.	...	Cir. w	...	Cir., cir. k.	Scud	...	Scud	...
25	Nim.	...	Mist	...	Mist	...	K. str.	...	Str.	...	Str., mist	...
26	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str.	...
27	K. str.	...	Str., mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
28	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
29	Nim., k.	...	Str. w	...	Str. w	...	Str. w	...	Str.	...	Str.	...
30	Nim.	...	Nim.	...	Scud NEW	...	K. str.	...	K.	...	K. str.	...

SPECIES OF CLOUD.

SEPTEMBER 1903.

7		8		9		10		11		12		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
Str.	...	Str.	...	Str.	...	Str.	...	K. str.	...	K.	...	1
...	...	...	...	...	...	...	...	...	...	...	...	2
...	Cir. str. w	Scud	Cir. str.	...	Cir., cir. st.	...	Cir. str.	...	Cir. str.	Str.	...	3
...	...	...	...	...	wsu	...	wsu	...	...	...	...	4
Scud	...	...	...	...	...	K. str., nim.	...	...	...	Scud wsw	Cir. str.	5
Str.	Cir., cir. str.	Str. w	Cir. str.	Str.	...	wsu	...	...	Cir. str.	ssw	ssw	6
...	...	...	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	7
K. str. sw	...	Str.	...	Str. k.	...	K. str.	...	K. sw	Cir. str.	Str. k. wsw	...	8
...	...	...	...	...	...	wsu	...	...	...	...	...	9
...	Cir.	Str.	...	K.	...	Str.	...	Fog	...	Fog	...	10
Mist	...	Str.	...	K.	...	Str.	...	Nim.	...	Mist	...	11
K. w x s	Cir.	...	Cir. k.	...	Cir. sw	...	Cir. w x s	K. str., str.	Cir. k., cir. str.	Str.	...	12
Mist	...	Mist	...	Mist	...	K.	...	Mist	...	Nim.	...	13
Fog	...	Str.	...	Str. k.	...	Str.	...	Str.	...	Str.	...	14
Str.	...	Str.	...	Str.	...	Str.	...	Mist	...	Str.	...	15
K. str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	16
Str.	Cir., cir. k.	Str.	...	Str.	...	Str. sw	...	K. str., str. sw	...	Str.	...	17
Str.	Cir. k.	K. str.	...	K.	...	Str.	Cir. str.	Str. sw	Cir. str.	Str. sw	Cir. k.	18
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	19
Str. sw	Cir. wsw	Str. wsw	...	Str.	...	Str.	...	Str.	...	Nim.	...	20
...	...	...	...	...	...	...	...	...	...	...	...	21
...	Cir. str.	...	Cir. str.	...	Cir. str.	...	Cir. str.	...	Cir. str.	...	Cir. str.	22
...	Cir. str., cir. k.	Str.	Cir. str.	...	Cir. str.	...	Cir. str.	...	Cir. str.	...	Cir. str.	23
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	24
...	Cir. str.	...	Cir. str.	...	Cir.	...	Cir. str.	...	Cir. str.	...	Cir. str.	25
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	26
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	27
Str.	...	Scud	...	Scud	...	Str.	...	Str.	...	Str.	...	28
Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	29
Str.	...	Nim.	...	Nim.	...	Str.	...	Str. w	...	Str. w	...	30
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	30

19		20		21		22		23		Midnight.		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
...	...	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	...	...	...	2
K. ssw	...	K.	...	K.	...	K. s	...	K.	...	K.	...	3
...	...	...	Cir. haze	...	Cir. haze	...	Cir. haze	...	Cir. str.	...	Cir., cir. k., cir. str. sw	4
Str.	...	Str.	...	Str.	...	K.	Cir. k., cir. str.	K.	...	K.	...	5
Str.	...	Str. k. sw	...	K. sw	...	K.	...	K. sw	...	K. sw	...	6
...	...	K. s	...	K.	...	K. s	...	...	...	...	...	7
...	...	...	Cir. str.	...	...	...	Cir. str.	K.	Cir. str. wsw	...	...	8
Str.	...	Str.	...	Str.	...	K. str.	...	Str.	...	K. str.	...	9
K. str.	...	Str.	...	Nim.	...	K. str.	...	K. str.	...	Nim.	...	10
Str., mist	...	Str.	...	Str.	...	Str.	...	K.	...	K.	...	11
K.	...	Str.	...	Str.	...	Nim.	...	Nim.	...	K. str.	...	12
Str.	...	Str.	...	Str. k.	...	Nim.	...	Str.	...	Nim.	...	13
Str.	...	Str.	...	K. str.	...	K.	...	K.	...	K. str.	...	14
Str.	...	...	...	...	...	K. str.	...	K. str.	...	...	...	15
Nim.	...	Str.	...	K.	...	K.	...	Str.	...	K.	...	16
...	...	...	...	...	...	Str.	...	K.	...	K.	...	17
Nim.	...	Nim.	...	K. str.	...	K. str.	...	Nim.	...	Str.	...	18
N m.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	19
...	...	...	...	...	...	...	...	...	...	...	...	20
...	Cir. str.	...	...	...	Cir. str.	...	Cir. k	K. str.	...	K. str.	...	21
...	Cir. str.	...	...	...	...	K.	...	K. str.	...	K. str.	...	22
Nim.	...	Nim.	...	Nim.	...	Nim.	...	...	...	...	...	23
K. str.	...	Nim.	...	Str.	...	Str.	...	Nim.	...	Str.	...	24
K. str.	...	K. str.	...	K. str.	...	Nim.	...	Nim.	...	Nim.	...	25
Str.	...	Nim.	...	Nim.	...	K. str.	...	Nim.	...	Nim.	...	26
Nim.	...	K. str.	...	Str.	...	K.	...	K., K. str.	...	K. str.	...	27
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	28
K. str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	29
Str.	...	Nim.	...	Nim.	...	Nim. nw	...	K. wsw	...	Nim.	...	30

OCTOBER 1903.

SPECIES OF CLOUD.

	1		2		3		4		5		6	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	Nim.	...	K.	...	...	...	K.	...	...	...	Str. nw	...
2	Nim.	...	Nim.	...	Nim.	...	Scud., nim.	...	Nim.	...	Nim.	...
3	...	...	...	...	...	...	...	...	...	Cir. w	...	...
4	Str.	...	Str.	...	K. str.	...	Str.	...	Str.	...	Str.	...
5	K. w x n	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
6	Str.	...	Str.	...	Nim.	...	Str., nim.	...	Str.	...	Str.	...
7	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
8	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...
9	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str. NE	...	Str. NNE	...
10	Str.	...	K. E	...	Nim.	...	Nim.	...	Nim.	...	Str.	...
11	Str.	...	Str., scud	...	Scud	...	Str.	...	Str.	...	Str.	...
12	K. str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...
13	K. str.	...	K. str.	...	K. str.	...	K. str.	...	Nim.	...	Str.	...
14	K. str.	...	Nim.	...	Str.	...	K.	...	Str.	...	Str.	...
15	...	...	...	...	Scud	...	Str.	...	Str.	...	Str.	...
16	...	...	...	...	K.	...	...	...	...	...	Str. sw	...
17	K.	...	K.	...	K. scud	...	Scud, str.	...	Scud n	...	Scud	...
18	Str.	...	Str.	...	Str.	...	K. scud	Cir. k.	Str.	...	Str.	...
19	...	...	...	...	...	...	...	...	...	...	...	...
20	K.	...	K.	...	...	...	K.	...	...	...	Str. WNW	...
21	...	...	...	...	K. NE	...	Str. ssw	...	Str.	...	Scud, str.	...
22	K. str.,	...	K.	...	K. str.	...	Str. w	...	Str. w	...	Str. w	...
23	K. str.,	...	K.	...	K. str.	...	Str.	...	Str.	...	Str.	...
24	nim.	...	...	...	...	...	...	...	...	...	...	...
25	K. str.	...	K. nw	...	K. str.	...	Str. WNW	...	Str. w	...	Str. w	...
26	...	...	K. str.	...	K. str.	...	Nim.	...	Nim.	...	Str.	...
27	K.	...	K. str.	...	K.	...	Str.	...	Str.	...	Str.	...
28	Mist	...	K. str.	...	K. str.	...	Str.	...	Str.	...	Str.	...
29	K.	...	K.	...	K. str.	...	Str.	...	Str.	Cir. str.	Str.	Cir. wsw
30	Mist	...	Nim.	...	K. str.	...	Nim.	...	Str. wsw	...	Str.	...
31	Nim.	...	Nim., K. st.	...	Mist	...	Nim.	...	Str.	...	Str.	...
32	K. E	...	K. str.	...	K. str.	...	Str. sw	...	Str. sw	...	Str. sw	...

	13		14		15		16		17		18	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	K., K. str.	...	...	Cir. str. nw	K.	...	Nim.	...	Str. nw	...	K. scud sw	...
2	K.	...	K. str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...
3	...	...	...	...	...	...	...	Cir. k., cir. wnw	K., K. str. nw	...	K. scud	...
4	Str.	...	K. str.	...	Nim.	...	K. str.	...	Str.	...	Nim.	...
5	K., K. str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	K. str.	...
6	Nim.	...	K.	...	Str.	...	K.	...	Str.	...	K. str.	...
7	K. str.	...	Str.	...	Str.	...	Nim.	...	K.	...	Nim.	...
8	K., K. str. w	...	K.	Cir. k. n	K. str.	...	Str. NNW	...	Str.	...	Str.	...
9	K.	...	Str. n	Cir. str. nw	Str. NNE	...	K.	...	K. str.	...	Str.	...
10	K. n	...	K. n	...	K.	...	Nim.	...	Nim.	...	Str.	...
11	Str.	...	K. scud	...	Str.	...	Str.	...	Str.	...	Str.	...
12	Nim.	...	K. str.	...	K. w	...	Nim.	...	K.	...	K.	...
13	Nim.	...	Nim.	...	K. str. sw	...	Nim.	...	Nim.	...	Nim.	...
14	Str.	...	K. str.	...	K. str.	...	K.	...	K.	...	K. scud	Cir. k. sw
15	Str.	...	Nim.	...	K.	...	...	Cir. k. nw	K. str.	Cir. k.	Str.	...
16	Str.	...	Str.	...	Str.	...	Str.	...	K. str.	...	Scud str.	...
17	K. str.	...	Str.	...	Str.	...	Str.	...	K. str.	...	Str.	...
18	Nim.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...
19	Scud	Cir. k.	Scud	Cir. str. wnw	...	Cir. str. nw	K. str.	...	Str.	...	Str.	...
20	Nim.	...	K.	...	K. sw	...	Str., scud	...	K. str., k.	...	K. str. sw	...
21	...	Cir.	Scud., str. wsw	...	K.	...	Str. wsw	...	K. str.	...	K. str.	...
22	Nim.	...	K. str.	...	Str.	...	Nim.	...	Str.	...	Nim.	...
23	K.	Cir. k.	Str.	...	Nim.	...	Nim.	...	Nim.	...	K. str.	...
24	K. str.	...	K. str.	...	Str.	...	Nim.	...	Str. w	Cir. str.	K. str.	...
25	Nim.	...	K.	...	K. str.	...	K. str., nim.	...	K., K. str.	...	K. str.	...
26	...	Cir. k., cir. st.	...	Cir. str.	K.	Cir. k.	K. scud	Cir.	Cir. k.	Scud	K.	Cir. str.
27	Nim.	...	Nim.	...	Str. wsw	Cir.	Str.	...	K.	...	Str.	...
28	Str., mist	...	Str., mist	...	Str.	...	Str.	...	Str., mist	...	Str.	...
29	Nim.	...	Nim.	...	Str.	...	Str.	...	Str.	...	Nim.	...
30	K. str.	...	Str.	...	Str. k.	...	Str.	...	Str.	...	Str.	...
31	Str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...

SPECIES OF CLOUD.

OCTOBER 1903.

7		8		9		10		11		12		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
Str.	...	Nim., str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	1
Nim., str.	...	Str.	...	Str.	...	Str.	...	Scud, str.	...	Nim., str.	...	2
...	...	...	Cir. str.	...	Cir. str.	...	...	...	...	...	...	3
Str.	...	Str.	...	Str.	...	Str.	...	Str. N x W	...	Str.	...	4
Str., scud N	...	Str., scud	...	Str., scud	...	Str.	...	Str., scud NW	...	K. scud	...	5
Str.	...	NNW	...	NNW	...	Str.	...	Str.	...	Str.	...	6
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	7
Nim.	...	Nim.	...	Str.	...	Str., scud	...	Scud	...	Str.	...	8
Str.	...	Str.	...	Nim., str.	...	Nim.	...	Nim.	...	Str.	...	9
Nim.	...	Str. NE	...	...	Cir. k.	Str., scud	...	Str. NNE	...	Str. NE	...	10
Str. E	...	Str. E	...	K. str.	NNW	Str.	...	Str., scud	...	K. str.	...	11
Nim.	...	Str., scud	...	Str., scud	...	Str.	...	Str.	...	Str.	...	12
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	13
Str.	...	Str.	...	Str.	...	Str. sw	...	Str. sw	...	Str.	...	14
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	15
Str. sw	...	...	...	...	...	...	...	Str. sw	...	Str. w	...	16
Str.	...	Fog	...	Scud	...	Str.	...	Str.	...	K.	...	17
Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	Nim.	...	18
...	...	...	...	Mist	...	Scud	...	...	Cir. str.	Str.	Cir., str. NW	19
...	Cir. st. w	...	Cir. st. w	Str.	...	Str. w	...	Nim.	...	Str.	...	20
Str.	...	...	...	...	Cir.	K.	Cir.	K.	Cir.	K.	Cir.	21
Str., scud	...	Str.	...	K. str.	...	Str.	...	Str., scud N.	...	Str.	...	22
Str.	...	Str.	...	Str.	...	Scud, str.	...	NW	...	Str. w	...	23
Str. w	...	K.	Cir. k.	K.	...	K.	...	K. str.	...	Str.	...	24
Str.	...	Nim.	...	Nim.	...	Str. w	...	Str.	...	Str.	...	25
Str.	...	Str.	Cir. str.	K. str.	Cir., cir. str.	Str.	Cir. str.	Str.	Cir.	K., K. str.	...	26
Str. w	...	...	Cir. str.	Scud	Cir. k.	Scud w	Cir. str.	Nim.	...	Str.	...	27
Scud	Cir. w	Mist	...	Str.	...	Mist	...	Mist	...	Str., mist	...	28
Str. w	...	Str. wsw	...	Str. wsw	...	Str. w	Cir. str.	Nim.	...	Nim.	...	29
Nim.	...	Str., scud	...	Str.	...	Str.	...	Str.	...	Str.	...	30
Str. sw	...	Str. wsw	...	K.	Cir. k.	Str.	...	Str.	...	Str., scud	...	31

19		20		21		22		23		Midnight.		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
K. scud.	...	K. str.	...	K. str.	...	Nim., k. str.	...	K.	...	Scud	...	1
Nim.	...	K.	...	K.	...	K.	...	K.	...	K.	...	2
K. str.	...	K.	...	K.	...	K.	...	K. str.	...	K. str.	...	3
Nim.	...	Nim.	...	K. nim.	...	K.	...	K.	...	K.	...	4
Nim.	...	Nim.	...	Str.	...	Str.	...	K. str.	...	Nim.	...	5
K. str.	...	K.	...	Str.	...	K. str.	...	Nim.	...	Nim.	...	6
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	7
K. str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	8
Nim.	...	Str.	...	Nim.	...	Nim.	...	K.	...	Str.	...	9
Str.	...	K. str.	...	K.	...	Str.	...	Nim.	...	Scud	...	10
K. w x s	...	Str.	...	Str.	...	K. str.	...	K.	...	Nim.	...	11
K.	...	K. w x s	Cir. k.	K.	...	K. str.	...	K.	...	K. str.	...	12
Str.	...	Nim.	...	K. str.	...	K. str.	...	Nim.	...	K. str.	...	13
K.	Cir. str.	Str. wsw	...	K.	...	...	...	Str.	...	...	...	14
K. str.	...	K. str.	...	K.	...	...	...	...	...	...	...	15
Str.	...	K. str.	...	Str.	...	Str.	...	Str.	...	Str.	...	16
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	17
Str.	...	K.	Cir.	K.	...	K.	...	...	...	...	...	18
K.	...	Str. NW	...	Str.	...	K.	...	K.	...	K.	...	19
Str. sw	...	K. sw	...	...	...	...	...	...	...	...	...	20
K.	...	K.	...	K.	...	...	...	K.	...	K.	...	21
K. str.	...	K. str.	...	Str.	...	...	...	K. str.	...	K.	...	22
Nim.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	Scud	...	23
K.	...	K. str.	...	K.	...	K. str.	...	K. str.	...	K.	...	24
K., K. str.	...	K. w x N	...	K.	...	K. str.	...	K. str.	...	K. str.	...	25
w x N	...	Mist	...	Mist	...	K. str.	...	K.	...	K. str.	...	26
K. str., k.	...	...	...	...	...	...	...	...	...	...	...	27
K., K. st. w	...	K. w	...	K. w	...	K.	...	K.	...	K.	...	28
Str.	...	Str.	...	K. str.	...	Mist	...	Nim.	...	Nim.	...	29
Nim.	...	Nim.	...	Str.	...	Nim.	...	K. NW	...	K. NW	...	30
K. w	...	K. wsw	...	K. w x s	...	K. w	...	K. w	...	K.	...	31
Str. mist	...	Str., scud	...	K.	...	Nim., mist	...	Mist	...	Mist	...	31

NOVEMBER 1903.

SPECIES OF CLOUD.

	1		2		3		4		5		6	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	Nim.	...	Nim.	...	K., K. str.	...	K., K. str.	...	Str., mist	...	Mist	...
2	K. s	...	K.	...	K.	...	K.	...	K. str. ssw	...	K. str. wsw	...
3	K. w	...	K.	...	K.	...	K. wsw	...	K. str. wsw	...	K.	...
4	K. str.	...	Nim.	...	K. str.	...	Nim.	...	K. NW	Cir., cir. str.	K. NW	...
5	K. str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K.	...
6	K. str.	...	K. str.	...	K. scud	...	K. str.	...	K. str.	...	K. str.	...
7	K. scud	...	Scud	Cir. k., cir. str.	Scud	...	Str.	...	K. str.	...	K.	...
8	K. str.	...	K. scud w	...	K. str. sw	...	K. wsw	...	K. w	...	K., K. str. WNW	...
9	Scud	...	...	...	Str., scud	...	Str.	...	Str.	...	Str.	...
10	Str.	...	Str.	...	Str.	...	K. str.	...	K. str.	...	K. str.	...
11	K. str.	...	K. str.	...	K. str. NW	...	K.	...	K. str.	...	K. scud WNW	...
12	Nim. mist	...	Str., mist	...	Str., mist	...	Mist	...	Mist	...	Mist	...
13	K., K. str. NW	...	K., K. str. NW	...	K., K. str. NW	...	K. scud	...	K.	...	K. scud	...
14	K., K. str. NW	...	Str.	...	K., K. str. NW	...	Nim.	...	Nim.	...	Nim.	...
15	Str.	...	Str.	...	Str. WNW	...	Nim. K. sw	...	K., K. str.	...	K., K. str.	...
16	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
17	K. WNW	Cir.	K. WNW	Cir.	K. WNW	Cir. NW	...	Cir. k.	K. str.	Cir., cir. k.	K. str.	Cir. str.
18	Nim.	...	Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...
19	K., K. str. NW x W	...	...	Cir.	K. WNW	Cir. str.	K. str.	...	K., K. str.	...	K., K. str.	...
20	Str.	...	Str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...
21	Fog	...	...	...	...	...	...	...	Fog	...	Fog	...
22	Nim.	...	Nim.	...	Nim.	...	Mist	...	Str.	...	Nim.	...
23	Str.	...	Str.	...	Scud	...	Scud WNW	...	K. str. NW	...	K. NW	...
24	Nim.	...	K., K. str.	...	K.	Cir., cir. st.	K., K. str. WNW	...	K., K. str. NW	...	Str. NW	...
25	K.	...	K. w	...	Str.	...	Str.	...	K., K. str.	...	Str.	...
26	K. str.	...	K. str.	...	Str.	...	K. str.	...	Str. sse	...	Str.	...
27	K. str. nim.	...	Nim. w	...	Nim. w	...	K. str.	...	Nim.	...	K. str. w x s	...
28	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
29	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
30	Str.	...	Str.	...	Str.	...	Str.	...	Nim.	...	Nim.	...

	13		14		15		16		17		18	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	Nim.	...	K. str.	...	Str.	...	Str.	...	Nim.	...	Nim.	...
2	K.	...	K. sw	...	K.	...	K.	...	K. wsw	...	K. str. sw	...
3	...	...	K.	...	K.	...	K.	...	...	...	...	Cir.
4	Nim.	...	Nim.	...	K., K. str.	Cir., cir. k.	K.	Cir., cir. k.	K.	Cir. k., cir. str.	Nim.	...
5	K. sw	...	K. wsw	...	K. sw	...	...	...	K. sw	...	...	...
6	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
7	Scud	Cir. k., cir. str.	K. scud	Cir. k.	K.	Cir. k., cir. str.	...	Cir., cir. k.	...	Cir., cir. k.	...	Cir.
8	K. w	...	K. w	...	K.	...	...	...	...	...	...	...
9	K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...
10	K. str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...
11	K. scud	...	K., K. str. NW	...	K.	...	K.	Cir.	K.	...	K.	...
12	Str.	...	Nim.	...	Nim.	...	Str.	...	Nim.	...	Nim.	...
13	K.	...	K.	...	K.	...	K.	...	K. w	...	K.	...
14	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
15	K.	...	Str.	...	K.	...	K., K. str.	...	K. sw	...	K. str.	Cir. k., cir. str.
16	Nim.	...	Nim.	...	Nim.	...	K., K. str. WNW	...	Str. WNW	...	K.	Cir. k.
17	K. str.	...	K., K. str.	...	K.	...	K.	...	K.	...	K.	...
18	K.	...	K. sw	...	K. wsw	...	K. w	...	K.	...	K.	Cir.
19	K. scud	Cir. k.	K. NW x N	Cir. k. w	Scud	...	K. str.	...	Str.	...	Str.	...
20	Str.	...	Nim. w	...	Mist	...	K. w	...	K., K. str. WNW	...	K. w	...
21	K. str.	...	K. str. N	...	K., K. str. N	Cir.	Str.	...	Str.	...	Mist	...
22	K.	Cir., cir. str.	Str.	...	Str.	...	Str.	...	Nim.	...	Nim.	...
23	K., K. str. WNW	Cir. NW	Scud	...	...	...	Scud	...	K., K. str. NW	Cir.	K., K. str. NW	...
24	K., K. str. WNW	Cir.	K.	...	K.	Cir., cir. k.	K. NW	Cir.	K.	Cir.	K. str.	Cir. k.
25	K. sw	...	K. str.	...	K., K. str. sw	Cir. str.	K., K. str. sw	...	K. str.	...	K. str., nim.	...
26	K., str. ssw	...	Str. ssw	...	Str. ssw	...	r. ssw	...	Str. ssw	...	K. str.	...
27	K. str.	...	K. str. w x s	...	K. str., nim. NW	...	K. str. w x s	...	K. str. w	...	Nim.	...
28	K. str.	...	K.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...
29	Nim.	...	Str., nim.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...
30	K.	...	K.	...	Nim.	...	K.	...	K. se	...	K. nim. sse	...

SPECIES OF CLOUD.

NOVEMBER 1903.

7		8		9		10		11		12		
Lower. Str., mist	Upper.	Lower. Str., mist	Upper.	Lower. Str. k.	Upper.	Lower. K. str. N x W	Upper.	Lower. Str. w x N	Upper.	Lower. Nim.	Upper.	
K. str. sw	...	K. sw	...	K. scud sw	...	K. scud sw	...	K. scud wsW	...	K. wsw	...	1
K.	...	K. w	...	K. w	...	K. w	...	Scud w	...	Scud wsw	...	2
K. NW	...	K. WNW	...	K. NW	Cir. k.	Scud k.	Cir.	Str., mist	...	K.	...	3
Nim.	...	K.	...	K.	...	K.	...	K. scud w	...	K. scud WNW	...	4
Str., mist	...	Str., mist	...	Str., mist	...	Mist	...	Nim., K. str.	...	Nim.	...	5
K. str., K. WNW	...	Str. k. NW	...	K. scud NW	...	K. scud WNW	...	Scud NW	Cir. str.	Scud NW	Cir., cir. str.	6
K. scud WNW	...	K. scud WNW	...	Scud WNW	...	Scud W x N	...	Scud w x N	...	K. w	...	7
Str.	...	Str.	...	K. str., K.	...	Str.	...	Str.	...	K. str.	...	8
K. str.	...	K. str.	...	K. str.	...	Str.	...	K. str.	...	K. str.	...	9
K.	Cir.	K.	Cir., cir. k. WNW	K.	...	K.	Cir.	K.	Cir., cir. k.	K., K. str.	...	10
Str.	...	Str., mist	...	Str.	...	Str.	...	K. scud	Cir.	Str.	...	11
K.	...	K. nim.	...	K. w	...	K. w	...	K.	...	K.	...	12
K. str.	...	K. str.	...	K. str.	...	K. str.	...	Nim.	...	Nim.	...	13
K. str.	...	K. str.	...	K., K. str.	...	K., K. str.	...	K.	Cir., cir. k.	K. sw x s	Cir., cir. k.	14
Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str.	...	K., K. str.	...	15
K. str.	...	K. str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	16
Str., nim.	...	Str.	...	K.	...	K. sw	...	K.	...	K.	...	17
K., K. str.	...	K. w	Cir. k.	K. w	...	K. w	Cir. k.	K. NW	Cir. k.	...	Cir., k., cir. str.	18
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	19
Fog	...	Fog	...	Scud	...	Str.	...	K. str.	...	Str.	...	20
Nim.	...	Nim.	...	K. w x s	...	K., K. str.	...	K., K. str. WN	Cir.	K., K. str.	Cir., cir. str.	21
K. NW	...	Scud NW x N	...	Scud NW x W	Cir.	K., K. str. NW x W	Cir.	K., K. str. WNW	...	Scud WNW	Cir. NW x W	22
Str.	...	Nim.	...	Nim.	...	K., K. str. WNW	...	K., K. str. WNW	...	K. str. WNW	...	23
Str. NW	...	K., K. str. NW	...	K. str. NW	...	K. str. NW	...	Str.	...	Str., K. str.	...	24
K. str. SE	...	K. str. SSE	...	K. str. SSW	...	K. str. SSW	...	K. str. SSW	...	Str. sw	...	25
K. str. w x s	...	K. str. w	...	K., K. str. W x s	...	K. str. sw	...	K. str. sw	...	K., K. str. W x s	...	26
Nim.	...	Nim.	...	Str.	...	Str.	...	Str.	...	Str.	...	27
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	28
Nim.	...	Nim.	...	Nim.	...	Str.	...	Nim.	...	K. str., nim.	...	29
												30

19		20		21		22		23		Midnight.		
Lower. Str.	Upper.	Lower. K. str.	Upper.	Lower. K. str.	Upper.	Lower. K. str.	Upper.	Lower. K. str.	Upper.	Lower. K.	Upper.	
K. wsw	...	K. str.	...	K. str. w	...	K., K. str.	...	K., K. str.	...	K. w	...	1
...	Cir.	...	Cir. NW	...	Cir. NW	K.	...	K.	...	K. str.	...	2
Nim.	...	Nim. NWW	...	K.	...	Nim.	...	Nim.	...	Nim.	...	3
...	...	Scud NWW	...	...	...	...	...	K.	...	K. sw	...	4
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str.	...	5
...	Cir. NW	...	...	Scud	...	K.	...	Scud	...	K.	...	6
...	...	K. sw	...	...	...	...	...	...	...	...	...	7
Nim.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	8
Scud K. w	...	Scud K.	...	K.	...	K. str. NW	...	Nim.	...	Nim.	...	9
K.	...	Str.	...	Str.	...	Str.	...	Nim.	...	Str.	...	10
K. NW	Str. w	K.	...	K.	...	K.	...	K.	...	K., K. str. WNW x NW	...	11
Nim. K.	...	Nim.	...	Nim.	...	K. str.	...	Str.	...	K. NW	...	12
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	13
K. str.	Cir. k.	K. str.	...	Str.	...	Str.	...	Str.	...	Str.	...	14
...	Cir., cir. k. NW	...	Cir. w	...	Cir. k. w	Scud WNW	Cir. str. NW	K. WNW	...	...	Cir. k. w NW	15
K.	...	Nim.	...	K. w	...	Str. WNW	...	Mist	...	Str.	...	16
K. w	Cir.	K.	...	K. w	...	K., K. str. NW x W	...	Str. WNW	...	K., K. str.	...	17
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str., nim.	...	18
K.	...	...	...	...	...	Str.	...	Fog	...	Fog	...	19
Str., mist	...	Mist	...	Str., mist	...	Nim.	...	Nim.	...	Nim.	...	20
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	21
Str. NW	...	Str.	...	Mist	...	Nim., mist	...	Mist	...	Nim.	...	22
K., K. str. NW	...	K., K. str. NW	...	K. NW	...	K. NW	...	...	...	...	...	23
Nim.	...	Str.	...	Str.	...	K. str. sw	...	K. str.	...	K. str.	...	24
K. str. w	...	K. str. sw	...	K. sw	...	K.	...	K.	...	K. str.	...	25
Nim.	...	Str. k. w	...	Str.	...	Nim. w	...	K. str.	...	K. str., nim.	...	26
K. str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...	Nim.	...	27
Nim.	...	K. str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...	28
K. str.	...	K. str.	...	Nim.	...	Nim. s	...	Nim.	...	Nim.	...	29
												30

SPECIES OF CLOUD.

DECEMBER 1903.

	1		2		3		4		5		6	
	Lower. Str.	Upper. ...	Lower. Str.	Upper. ...	Lower. Str.	Upper. ...	Lower. Str. K. s x w	Upper. ...	Lower. K. str., nim.	Upper. ...	Lower. K. str. s	Upper. ...
1	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
2	Nim.	...	Str.	...	K. str. N	...	K. str.	Cir.	K. str. NNW	Cir.	K. str. NNW	...
3	K. RNE	...	K. str.	...	Str.	...	Str.	...	Str.	...	K. str.	Cir., str. cir.
4	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str. s	...
5	K. ssw	...	K.	...	Nim.	...	Nim.	...	K., K. str.	...	K. str. wsw	...
6	K., K. str.	...	K., K. str.	...	K., K. str.	...	K., K. str.	...	K. str. NNE	...	Str. N	...
7	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim., K. str., scud NW	...	Str., nim. E	...
8	Str.	...	Str.	...	Str.	...	Str.	...	Str., nim.	...	Str. NE	...
9	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str., nim. SE	...
10	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str., nim.	...
11	Nim.	...	Nim.	...	Nim.	...	Nim. s	...	Nim.	...	K. str. w	...
12	Nim.	...	Nim.	...	Str.	...	Nim., str.	...	Nim.	...	Nim.	...
13	K. str.	...	K. str.	...	Nim.	...	K. str.	...	Str.	...	Str.	...
14	...	Cir. str.	Str.	Cir. str., cir.	Scud	Cir. k. cir.	Scud	Cir. str.	K. WNW	Cir.	K. str.	Cir., cir.
15	Str., mist	...	Str., mist	...	Str., mist	...	Str., mist	...	Str., mis	...	Mist	...
16	K. sw	...	K. sw	...	K. sw	...	K.	...	K. str. w	...	K. str. w x s	...
17	Scud WNW	Cir. k.	Str., nim.	...	K. str.	...	K. str.	...	Str.	...	Str.	...
18	Str., mist	...	Str., mist	...	Str., mist	...	Str., mist	...	Mist	...	Mist	...
19	Mist	...	Mist	...	Mist	...	Str., mist	...	Mist	...	Mist	...
20	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
21	K. str.	...	K., K. str.	...	K., K. str.	...	K. w	Cir. k.	Scud NW	cir., cir. str. NW	Scud WNW	Cir., cir.
22	w x N	...	...	...	...	...	...	...	...	...	...	...
23	K.	...	K.	...	K. scud	...	K. scud	...	K. str.	Cir.	K. scud	...
24	K. str.	...	K. str.	Cir. str.	Str. k. NW	...	K. str. NW	...	scud NW	...	K. str. NW	...
25	K. w	...	K. w	...	K.	Cir.	K. w	...	K. str.	Cir.	K. str. NW	...
26	K.	...	K.	...	K.	...	K.	...	NW x N	...	K., K. str.	...
27	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str. w x s	...	w x s	...
28	Str.	...	K. str. w	...	Str.	...	Str.	...	K., K. str.	...	K. w	...
29	Nim.	...	Nim.	...	Nim.	...	Nim.	...	w x N	...	...	...
30	Str.	...	Mist	...	Mist	...	Mist	...	Nim., mist	...	Nim.	...
31	Str.	...	Str.	...	Mist	...	Mist	...	Str.	...	K. str. sw	...
									Nim.	...	Nim.	...
									K. str. w	...	K. str. w	...
									Mist	...	Mist	...

	13		14		15		16		17		18	
	Lower. Nim.	Upper. ...	Lower. Nim.	Upper. ...	Lower. Nim.	Upper. ...	Lower. Nim.	Upper. ...	Lower. Nim.	Upper. ...	Lower. Nim.	Upper. ...
1	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
2	Nim.	...	K. str.	...	K. nim. N	...	Nim. str.	...	Str., nim.	...	K. str.	...
3	K.	...	K. N	...	K.	...	K.	...	K.	...	K. str.	...
4	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
5	K.	...	K.	...	K.	Cir. k.	K. s	...	K.	...	K. s	...
6	K., K. str.	...	K.	...	K. sw	...	K. sw	...	K.	...	K.	...
7	K. N	...	K.	...	Nim. NNE	...	Nim. N	...	Nim. N	...	Nim. N	...
8	Nim.	...	K. NNE	...	K.	...	K. NNE	...	K.	...	K.	...
9	Str.	...	Str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...
10	K. st.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...
11	Nim.	...	Nim.	...	K., K. str.	...	K. str.	...	K. str., nim.	...	Nim.	...
12	K.	...	K.	...	K.	...	K.	Cir. k.	K.	...	K.	...
13	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
14	K. w	Cir. k.	K. w x N	...	K. str.	...	Str. w	...	K. str. w x s	...	Str.	...
15	Str., K. str.	...	Str.	...	w x N	...	Str., mist	...	Str., mist	...	Mist	...
16	Nim.	...	Nim.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...
17	...	Cir. k., cir.	...	Cir., cir. k., cir. str.	...	Cir., cir. k.	...	Cir., cir.	...	Cir. str.	...	Cir. k., cir.
18	K.	...	K. w x N	...	Scud, K.	...	K. scud	...	K. w	...	K. w	...
19	Str.	...	Str.	...	w x N	...	w x N	...	...	...	...	...
20	Mist	...	Str., mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
21	Str.	...	Str.	...	Str.	...	Str., mist	...	Str., mist	...	Str.	...
22	Nim.	...	Nim.	...	K. str. w	...	K.	...	K.	...	K. w	...
23	K.	Cir., cir. k.	K., scud NW	...	Nim.	...	Str. k.	...	K. NW	...	K. NW	...
24	Str. k., nim.	...	Str. k.	...	K.	...	K.	...	K.	...	Str. k. NW	...
25	Nim.	...	Nim.	...	K. WNW	...	K. str., nim.	...	K. w	...	K. str.	...
26	...	Cir. k.	...	Cir. k.	Nim.	...	Nim., K. str.	...	K. w	...	K.	...
27	Nim.	...	Str., mist	...	...	Cir. k.	...	Cir. k.	...	Cir., K. str.	...	Cir. str.
28	K. str.	...	Str. K.	...	Mist	...	Mist	...	Mist	...	Nim.	...
29	K. str.	...	K., K. str.	...	K. str.	...	Str. K.	...	K. str. NW	...	Str. k.	...
30	K.	Cir.	K. NW	Cir. k.	K. str	...	K. str.	Cir.	...	Cir., cir. str. NW	Str.	Cir.
31	Str. k.	Cir.	Str.	...	K. w	...	K. str.	...	Str.	...	K.	...
					Str., mist	...	Str., mist	...	Str., mist	...	Str.	...

DECEMBER 1903.

SPECIES OF CLOUD.

7		8		9		10		11		12		1
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
K. str. ssw	Cir. str.	K. s	...	K. s	...	Nim.	...	Nim. s	...	Nim.	...	2
Str.	...	Str.	...	K.	Cir. k.	K.	Cir., cir. k.	Nim.	...	Nim.	...	3
K. str. N	Cir.	K., K. str. N	Cir. k.	K.	...	K.	...	K. N	...	K.	...	4
...	Cir. str.	K.	Cir. k.	K. str.	...	K. str.	...	K. str.	...	K. str.	Cir. str.	5
Str. s	...	K. str.	...	Nim.	...	K.	...	K.	...	K. s	...	6
K., K. str.	...	K., K. str.	...	K., K. str.	...	K. str. w	...	K. wsw	...	K., K. str.	...	7
sw	...	sw	...	sw	...	...	...	...	...	...	...	8
Nim.	...	Nim.	...	K. str. N	...	K., K. str. N x E	...	K., K. str. N x E	...	K. str. N x E	Cir., cir. str.	9
Str., nim.	...	Nim. NE	...	Str., nim.	Cir. str.	Str. ENE	...	Str. ENE	...	K. str. ENE	...	10
NE	...	Str. NNE	...	Str. NNE	...	Str. NNE	...	Str. NNE	...	Str. NNE	...	11
Str. NE	...	K. str. SE	...	Str. SE	...	Str.	...	Str.	...	Str.	...	12
Str., nim. SE	...	Str.	...	Str.	...	Str., nim.	...	Str., nim.	...	Str.	...	13
Str.	...	K. str. sw	...	K. str. sw	...	K. str.	...	K. str.	...	K.	...	14
K. str. sw x s	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	15
Nim.	...	K.	...	K.	...	K.	...	K. str.	...	K. w	Cir. k.	16
Str.	Cir. k. w.	Str., mist	...	Mist	...	Str., mist	...	Str., mist	...	Str., mist	...	17
K. str. w x N	...	Mist	...	Mist	...	Mist	...	Mist	...	K. nim. w	...	18
K. str. w x s	Cir. str.	K.	...	K.	...	K., K. str. w	Cir., cir. k., cir. str.	K., K. str.	Cir., cir. str.	K. str. w	...	19
Nim.	...	Nim.	...	Nim.	...	K. w x N	...	K. w	...	K. w	...	20
Mist	...	Mist	...	Mist	...	Mist	...	Mist	...	Str., scud	...	21
Str.	...	Mist	...	Mist	...	Mist	...	Str.	...	Str., mist	...	22
Nim., str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	23
Nim.	...	Str., nim.	...	Str., scud NW	...	Str.	...	Str.	...	Nim.	...	24
K., K. str. NW	...	K. scud NW x w	...	K., K. str. NW x w	...	K. str., scud NW	...	K. str., scud NW x w	...	Scud, K. NW x w	Cir., cir. str.	25
Str.	...	Nim.	...	Nim.	...	Nim.	...	K. scud	...	K. str., scud NW	...	26
K. wsw	...	K. w x s	...	K. w x s	Cir., cir. str.	K. w x s	Cir., cir. str. NW	K. w	Cir.	K., K. str.	Cir.	27
K., K. str. w	...	K. w x N	...	...	...	...	...	K. NW	...	K.	...	28
Nim.	...	Str., mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	29
K. str. sw	...	K.	...	K.	...	K. str.	...	K.	...	K. str.	...	30
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	Cir.	31
K. str. wsw	Cir. k.	K.	...	K. str. w	...	K.	...	K., K. str. w x s	...	K. wsw	Cir. str.	
Mist	...	Mist	...	Mist	...	Mist	...	Mist	...	Mist	...	

19		20		21		22		23		Midnight.		1
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
K. nim. ssw	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	2
K. str., nim.	...	K., K. str.	...	K. str., nim.	...	Str.	...	Str.	...	Nim.	...	3
K.	...	K., K. str.	...	K.	...	K.	...	K.	...	K.	...	4
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	5
K.	...	K.	...	K.	...	K. str.	...	K. str.	...	K.	...	6
K., K. str. wsw	...	K., K. str.	...	K., K. str.	...	K., K. str.	...	K. str.	...	Str.	...	7
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim. NNE	...	8
Str. NE	...	K. str.	...	K. str.	...	Str.	...	Str.	...	Str.	...	9
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	10
K. str.	...	K. str.	...	K. str.	...	Nim.	...	Nim.	...	Nim.	...	11
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	12
K. str.	...	K. str.	...	Str. k.	...	Nim.	...	Nim.	...	K. str.	...	13
K. str.	...	K. s	...	K. str.	...	K. str.	...	K. str.	...	Nim.	...	14
Scud	Cir. k., cir. str.	K.	Cir. k. cir. str.	...	Cir. k., cir. str.	Str.	...	K. str.	...	K. str.	...	15
Mist	...	Mist	...	Str., mist	...	Str., mist	...	Str., mist	...	Str.	...	16
Nim.	...	K. sw	...	K. sw	...	Str. k.	...	K. str.	...	K. str.	...	17
...	Cir. k., cir. str.	...	Cir., cir. k.	...	Cir., cir. str.	...	Cir., cir. k.	Scud	Cir., cir. k.	Str., scud	Cir. str., cir. k. w x N	18
K. scud	...	K.	...	K. scud	...	K.	...	K. scud NW	...	Str., mist	...	19
Mist	...	Mist	...	Str., mist	...	Mist	...	Mist	...	Mist	...	20
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	21
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	22
K., K. str. NW	...	K. scud NW	...	K.	...	Str.	...	Nim.	...	K. str., nim.	...	23
K. str., scud NW	Cir. k.	K. str., scud NW	...	Nim.	...	K.	...	Nim.	...	Str. k.	...	24
K. str. w	...	Str.	...	K. str.	...	K. w	...	K. w	...	K. w	...	25
K. str. w	...	K., K. str. w	...	K. w	...	K. w	...	K. w	...	K.	...	26
K. str.	...	K. str.	...	Nim., str.	...	Nim.	...	Nim.	...	Nim.	...	27
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	28
Str. k.	...	Nim.	...	K., K. str. N	...	Str.	...	Str.	...	Nim.	...	29
Str.	...	Str., mist	...	Str.	...	Str.	...	Str.	...	Str.	...	30
K., K. str.	...	K. str.	Cir. k.	K. str.	Cir. str.	Str.	...	Str.	...	Str.	...	31
Mist	...	Mist	...	Str., mist	...	Str., mist	...	Str., mist	...	Str., mist	...	

JANUARY 1904.

SPECIES OF CLOUD.

	1		2		3		4		5		6	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	K. w	...	K. wnw	...	K. w	...	K. w	...	K. w	...	K. str. w	...
2	Str. k. w	...	K. str. w	...	Str. k. w	...	K. w	Cir.	K. ssw	...	K. str. ssw	...
3	K. nim.	...	K. e x s	...	K.	...	K.	...	K. str. se	...	K. str. ese	...
4	Str. k.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	Str.	...
5	K.	Cir. str.	K.	...	K.	Cir. str.	K.	...	K. nw	...	K. nw	...
6	K.	...	Nim.	...	K.	...	K. str.	...	Str.	...	Str.	...
7	K. sw	...	Str. k. sw	...	K. wsw	...	K. wsw	...	K. w	...	K. str. wsw	...
8	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim., str.	...	Nim., str.	...
9	Str., mist	...	K. w	...	K. w	...	K. w	...	K. str. w	...	K. scud w	...
10	Str., mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
11	Nim.	...	Nim.	...	Nim. w	...	Nim.	...	Nim. nnw	...	K. str. nim. w	...
12	K.	...	K. sw	...	K.	Cir. k.	K.	...	K. str. w	...	K. str. w.	...
13	K.	Cir. k.	K.	Cir. k.	K. str.	...	Nim.	...	Nim.	...	Nim.	...
14	K. str. nim.	...	K. str.	...	K. str.	...	Nim.	...	Nim.	...	Nim.	...
15	K. str.	...	K. se	...	K.	...	K.	...	K. str.	...	K. str. s	...
16	K.	...	K.	...	K.	...	K. str.	...	K. str.	...	K. str.	...
17	K.	...	K., K. str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...
18	Nim.	...	Nim.	...	Nim.	...	Mist	...	K. str. n	...	Mist	...
19	Nim.	...	Nim. e	...	K. str. e	...	K. str.	...	K. str.	...	Str.	...
20	K. str.	...	Str. k.	...	Nim.	...	Str. k.	...	Str., mist	...	Str.	...
21	Str., mist	...	Str., mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
22	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim., mist	...	Nim.	...
23	Nim.	...	Nim.	...	Nim.	...	Str., mist	...	Str., mist	...	Str., mist	...
24	Nim.	...	Nim. sw	...	Nim.	...	K. str.	...	Str. sw	...	Nim., str.	...
25	Str.	...	Nim.	...	Nim.	...	Str., nim. w	...	Nim.	...	Nim.	...
26	Str., nim.	...	Nim. w	...	Nim.	...	Str. sw	...	K. str. sw	...	Nim.	...
27	K. w	...	K. w	...	Str. k.	...	Str. k. w	...	Nim.	...	Str., nim.	...
28	Nim.	...	Str.	...	Str. k. w	...	Str. w	...	Nim.	...	Str. ssw	...
29	Str.	...	Nim.	...	Nim.	...	Str., nim. sw	...	K. str. ssw	...	Str.	...
30	Str.	...	Str.	...	Str.	...	Str. k.	...	Str.	...	Str.	...
31	K. str.	...	K. str.	...	K.	...	K. s	...	K. str. s	...	Str.	...

	13		14		15		16		17		18	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	K. sw	...	K. str. sw	...	K. sw x w	...	K. sw x w	...	K. str. sw	...	K. w	...
2	K.	...	Str.	...	K.	...	K.	...	K.	...	K.	...
3	K.	...	K.	...	K.	...	K.	...	K.	...	K.	...
4	K.	...	K. sw	...	K. sw	...	K.	...	K.	Cir. k.	K.	...
5	K. str.	...	K. str.	...	K. str.	...	K. nim.	...	K. str.	...	Nim.	...
6	Str. k.	...	K. str.	...	Nim. sw	...	Nim.	...	Nim.	...	K.	...
7	Str. k.	...	K.	...	K. str.	...	K. str.	...	K. str.	...	K., K. str.	...
8	K.	...	K. str.	...	Nim.	...	Nim.	...	Nim.	...	K.	...
9	...	Cir., cir. str.	K.	Cir. k.	K.	Cir. k.	K. str.	...	K. str.	...	Nim.	...
10	K. nim.	...	K.	...	K. w	...	Nim.	...	Nim.	...	Nim.	...
11	K.	...	K. scud w	...	K.	...	K.	...	K.	...	K. scud	...
12	K.	...	Nim.	...	Str. w	...	K.	...	K.	...	K. w	...
13	Str. nim.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
14	K. str. nim.	...	Nim.	...	Str. nim.	...	Str. sw	...	K.	...	K. str.	...
15	Str.	...	Str.	...	Nim. str.	...	K. str. nim.	...	Str.	...	Nim., str.	...
16	K. str.	...	K. str.	...	K.	...	K. w	...	K.	...	K.	...
17	K. str.	...	K. str.	...	K. str.	...	K. n	...	K.	...	K. n	...
18	K.	...	K. ne	...	Str.	...	Str.	...	Nim.	...	K.	...
19	K. str.	...	K. nw	...	K. str.	...	K. str.	...	Str., mist	...	Mist	...
20	Str., mist	...	Str. k.	...	Mist nw	...	Mist	...	Mist	...	Mist	...
21	K. str.	...	Str.	...	Str., mist	...	Str., mist	...	Str., mist	...	Str., mist	...
22	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
23	Str. k.	...	K. str.	...	Str. k. sw	...	Str. k. sw	...	K. str.	...	Str. k.	...
24	K. str. sw	...	K. str.	...	K.	...	K. w	...	K.	...	K. w	...
25	K., K. str.	Cir., cir. k.	K.	...	K. str.	...	K., K. str.	Cir., cir. k.	K., K. str.	Cir., cir. k.	K., K. str.	Cir. k.
26	Nim. sw	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Nim.	...
27	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim. sw	...	Nim.	...
28	Nim.	...	Str. k.	...	K. str.	...	Nim.	...	Nim.	...	Nim. sw.	...
29	Str. k.	...	Str.	...	Str. k.	...	Str. k.	...	Str. k.	...	Str. k.	...
30	Nim.	...	Nim. e	...	Str.	...	Str. e	...	K. str. e	...	K. str.	...
31	K. ssw	...	K.	...	K.	...	K. ssw	...	K. ssw	...	K.	...

SPECIES OF CLOUD.

JANUARY 1904.

7		8		9		10		11		12		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
K. str. ssw	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	1
K. str. sw	...	K. str. sw	...	K. str. sw	...	K. str. sw	...	K. str. sw	...	K. str. sw	...	2
K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	3
K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	4
K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	5
Nim., str. w	...	Nim. w	...	K. str. w	...	Str. w	...	Nim., str. w	...	Str. w	...	6
K. wsw	...	Str. wsw	...	Str. wsw	...	Str. w	...	Str. w	...	Str. w	...	7
Mist	...	Mist	...	Mist	...	Mist	...	Mist	...	Scud	...	8
K., scud w	...	...	...	...	...	...	...	...	...	...	...	9
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim. w	...	10
Str.	...	K.	...	K.	...	K. str.	...	K.	...	Str. k.	...	11
Str.	...	K.	...	K.	...	Nim.	...	K. nim. wnw	...	K. w	...	12
Nim., str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str., nim.	...	13
Str., nim.	...	Nim.	...	Str.	...	Str.	...	Str.	...	K. str. sw	...	14
Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	15
K. str. sw	...	K. str.	...	K. str. wsw	...	K. str.	...	K.	...	K.	...	16
Str.	...	Str.	...	Str.	...	Str.	...	K. str., scud	...	Str., scud n	...	17
K., mist n	...	K., mist n	...	K., mist n	...	K., mist n	...	Str.	...	Str.	...	18
Str., mist	...	Str., mist	...	Str., mist	...	Mist	...	Mist	...	Str., mist	...	19
Str., mist	...	Mist	...	Mist	...	Mist	...	Mist	...	Str., mist	...	20
Nim.	...	Mist	...	Mist	...	Str., mist	...	Str., mist	...	Str.	...	21
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim. str.	...	22
Str., mist	...	Str., mist	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	23
Nim.	...	Str. sw	...	Str. sw	...	Str. sw	...	Str., K. str.	...	K. str., str.	...	24
Nim.	...	K.	...	K. w	...	K. str.	...	K. str.	...	K. str.	...	25
Str., nim.	...	Nim.	...	Nim.	...	Nim. wsw	...	Str., nim.	...	Str., nim.	...	26
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	27
Str. sw x s	...	Nim.	...	K.	...	Nim.	...	Nim.	...	Nim.	...	28
Str.	...	Nim. sw	...	Nim.	...	Str. k.	...	Str.	...	K. str. wsw	...	29
Str., K. str.	...	Nim.	...	K. str.	...	Str.	...	Nim.	...	Nim.	...	30
N. str.	...	Str.	...	Str. s	...	Str.	...	Str.	...	K. str. ssw	...	31

19		20		21		22		23		Midnight.		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
K., K. str.	...	K. w	...	Nim.	...	Str.	...	Nim.	...	Str., nim.	...	1
K. str. sw	...	K. str. se	...	K. se	...	K. se	...	K. se	...	K.	...	2
Str.	...	Str. ese	...	Str. k.	...	Str. k.	...	Str. k.	...	Str. k.	...	3
K.	...	...	...	...	...	K. str.	...	K.	...	K.	...	4
Str., nim.	...	K. str. nw	...	K. str.	...	K. str. n	...	Nim.	...	K.	...	5
K. scud	...	K. str.	...	K. str.	...	K. str. sw	...	Str. k.	...	Str. k.	...	6
Str. w	...	w x s	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	7
Nim.	...	Str., mist	...	Nim.	...	Str., mist	...	Nim.	...	Str., mist	...	8
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	9
Nim.	...	K.	...	K.	...	K. str., str.	...	Str., mist	...	Nim.	...	10
K. w	...	K., nim.	...	Nim.	...	K.	...	Nim.	...	Nim.	...	11
K. w	...	w x n	...	K.	...	K.	...	K.	...	K.	...	12
Str.	...	Nim.	...	Str.	...	Str.	...	Nim.	...	K. str.	...	13
Str.	...	Str.	...	Str.	...	Str.	...	K.	...	K.	...	14
K. str. ssw	...	K. str.	...	Str. ssw	...	K.	...	K.	...	K.	...	15
K.	...	K. str.	...	Str.	...	K.	...	K. str.	...	K. str.	...	16
Str., nim. n	...	Nim.	...	Nim.	...	Nim.	...	Nim. ne	...	Nim.	...	17
Str.	...	Str.	...	Nim.	...	Nim.	...	K., nim. e	...	K.	...	18
Mist	...	Mist	...	Mist	...	Mist	...	Str., mist	...	K. str.	...	19
Mist	...	Mist	...	Mist	...	Mist	...	K. str.,	...	Str., mist	...	20
Str., mist	...	Mist	...	Mist	...	Str., mist	...	Str., mist	...	Str., mist	...	21
Nim.	...	Nim.	...	Str., mist	...	Str., mist	...	Str., mist	...	Nim.	...	22
Nim.	...	Str.	...	K. str.	...	K. sw	...	Nim.	...	Nim.	...	23
K. w	...	K. w	...	K. w	...	K. w	...	K. w	...	K. w	...	24
K. str.	...	K. str. w	...	K. w	...	Nim. w	...	Nim.	...	Nim.	...	25
w x s	...	Nim. sw	...	Nim.	...	Str.	...	Nim.	...	Str.	...	26
K.	...	Nim.	...	K. str. sw	...	Str. k. sw	...	Nim.	...	Nim.	...	27
Nim.	...	K. str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	28
Str.	...	K. str.	...	K. str.	...	Str.	...	Str.	...	Str.	...	29
Str. k.	...	K. str. e	...	K. e	...	K. e	...	K. e	...	K.	...	30
K.	...	K.	...	K.	...	K. nw	...	K. str.	...	K. str.	...	31

FEBRUARY 1904.

SPECIES OF CLOUD.

	1		2		3		4		5		6	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	K. str.	...	K.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
2	Str. k.	...	Nim.	...	Nim. nw	...	Nim.	...	Nim., str. NE	...	Str. N	...
3	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...	Str.	...
4	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
5	Nim.	...	Nim.	...	Nim.	...	K. nim. w x N	...	Str., nim. w	...	K. str., scud w	...
6	Mist	...	Str., mist	...	Nim.	...	Str.	...	K. w x N	...	Str., mist	...
7	K.	...	K.	...	K.	...	K. sw	...	K. str. w	...	K. w x N	...
8	K.	...	K. w	...	K.	Cir. k.	K.	Cir. k	...	Cir. NW	...	Cir., cir. str.
9	K. str.	...	Nim.	...	Nim.	...	K. str.	...	K. str. w	...	K. str. w	...
10	K. str. sw	...	K. sw	...	K. sw	...	K.	...	K. str. ssw	Cir. str.	K. w	Cir. str.
11	Nim.	...	Nim.	...	K. str.	...	Str., mist	...	Nim.	...	K. str. wsw	...
12	K.	...	K. w	Cir. k.	K. w	Cir. k.	K. w	...	K. w	...	K. w	...
13	Nim.	...	Nim.	...	Nim.	...	Scud	...	K. str. w x s	...	K. str. w x s	...
14	K.	...	Nim.	...	K.	...	K. sw	...	Str. sw x s	...	Str. sw	...
15	K. str.	...	K. str.	...	K. str.	...	K.	...	K. str. sw x s	...	K. str. ssw	...
16	K.	...	K. str.	...	K.	...	K.	...	Str. w	...	Str.	...
17	Str.	...	Nim.	...	Nim.	...	Str.	...	Str.	...	Str., mist	...
18	Str.	...	K.	...	K.	Cir. k.	Str.	Cir. k	K. w	Cir. k. NW	Mist	...
19	...	...	...	...	K. w	...	K. w	...	K. w	Cir.	K., K. str. w	...
20	Nim.	...	K.	...	K.	...	K.	...	Nim.	...	Nim., str.	...
21	Str.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...

	18		14		15		16		17		18	
	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.
1	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
2	K.	...	K. wnw	Cir. k.	K.	...	K. w	...	K. w	...	K.	...
3	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...
4	K.	...	K.	...	K.	...	K. nim.	...	Nim.	...	Nim.	...
5	K.	...	K.	...	K.	...	K.	...	K.	...	Nim.	...
6	Nim.	...	Nim.	...	K., scud w	Cir. k.	Str. w x s	...	K. NW	Cir. k.	K., scud w	Cir. k.
7	Nim.	...	K. sw	...	K. sw	...	K.	...	K.	Cir. k.	...	Cir. k. NW
8	Nim., K. str.	...	K. w	...	K.	Cir. w	K.	Cir.	Str.	...	K.	Cir.
9	K.	...	K. w	...	K.	...	K. str., w	...	K.	...	K. w	...
10	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	Str.	...
11	Nim.	...	K. str., str.	...	K. w	Cir., cir. str.	K. str.	...	K. str. w	Cir., cir. k.	K., K. str. wnw	...
12	K. w	...	K.	...	Str., scud w x N	...	Str.	...	Nim.	...	K.	...
13	K. sw	...	K. sw	...	K. sw	...	K. sw	...	K. sw	...	K. sw	...
14	K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...	K. str.	...
15	K.	...	Str.	...	Str. sw	...	Str.	...	Str. sw x s	...	K. sw	...
16	Nim.	...	Nim.	...	Nim.	...	Nim., str.	...	Nim.	...	Str.	...
17	K. str.	...	Nim., K.	...	K.	...	...	Cir. k., cir. str.	K.	...	K. str.	...
18	Nim.	...	Nim.	...	Nim. w	...	Nim. w	...	K. w	Cir.	K. w	...
19	K. w	Cir. wsw	K. str.	...	Str.	...	Str., mist	...	K. str.	...	Str.	...
20	Nim.	...	Nim.	...	Nim., str.	...	K. w	...	K. scud wsw	Cir.	K. scud w	Cir.
21	K. str. NE	...	K. str. NW	...	K. str. NW	...	K.	...	K. str. NW	...	K. w	...

SPECIES OF CLOUD.

FEBRUARY 1904.

7		8		9		10		11		12		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Str., nim.	...	Str.	...	1
Str., nim.	...	Nim.	...	Str.	...	Str. w	...	Str. w	...	Str.	...	2
Str.	...	Str., nim.	...	Str., nim.	...	Str., nim.	...	Str.	...	Nim.	...	3
Str.	...	Str.	...	Str., nim.	...	Str. wnw	...	Str.	...	K. str. w	...	4
Str., nim.	...	K. scud w	Cir.	K. w	Cir. str.	K. w	...	K. str. w	...	K. str. w	...	5
K. str. w	...	K. w	Cir. str.	K. str. w	...	Str., mist	...	Str., mist	...	K. str. w x s	...	6
...	Cir.	K., K. str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	7
...	Cir., cir.	K. str. nw	...	K. str.	...	Str.	...	K., K. str.,	...	K. str.	...	8
K. str. w.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	9
K. wsw	Cir., cir.	K. str.	Cir. k., cir.	K. str.	Cir. k., cir.	K. str.	Cir. k., cir.	Str.	...	K. str.	...	10
Str.	...	K. str.	...	Nim.	...	Nim.	...	Str.	...	Nim.	...	11
K. str. w	...	K. str.	...	K. w x n	...	K. w	...	Str. k.	...	K. w	...	12
K. str. w	...	K. nw	...	K.	...	K. w	...	K. str. w	...	K. sw	...	13
K. str. w x s	...	K. w	...	Nim.	...	Str., nim.	...	Str.	...	Str.	...	14
Str. sw	...	Str. sw	...	K. sw x s	...	K. sw x s	...	K.	...	Str.	...	15
K. ssw	...	K. ssw	...	Nim. nw	...	Nim.	...	Nim.	...	Nim.	...	16
Str. wnw	...	K. nw	...	Str. w x n	...	K. str. wnw	...	K. str. w x n	...	K. str. w	...	17
K.	...	K. str.	...	Str.	...	Str., mist	...	Str., mist	...	Nim., str.	...	18
Mist	...	Str., mist	...	K.	...	K. w x n	...	K. w x n	...	K., K. str. w	...	19
K. w	...	K. w	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	20
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K.	...	21
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	21

19		20		21		22		23		Midnight.		
Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	
Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str.	...	Str. k.	...	1
K.	...	K. str. w	...	K.	...	Str.	...	Str.	...	Str.	...	2
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	3
Str., nim.	...	Str., scud	...	K., K. str.	...	Nim. w	...	Nim.	...	Nim.	...	4
w	...	w	...	K.	Cir.	K.	...	Str., mist	...	Mist	...	5
K.	...	K. scud w	...	Nim.	...	K.	...	K.	...	K.	...	6
K. scud w	Cir. k.	K.	...	K., K. str.	...	K. w	...	Nim.	...	K.	...	7
K.	Cir. k., cir.	K.	...	Nim.	...	Str., mist	...	Nim.	...	K.	...	8
K. str.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	K. str.	...	9
Nim.	...	K. str.	...	K.	...	Nim.	...	Nim.	...	Nim.	...	10
Mist	...	Str., mist	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	11
Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	Nim.	...	12
K.	...	K. w	...	K.	...	K. str.	...	K. str.	...	K. str.	...	13
Str., sw	...	Str. sw	...	K.	...	Nim.	...	K. str.	...	Nim.	...	14
K. str.	...	K. s	...	K.	...	K.	...	K.	...	K. str.	...	15
K.	...	K. sw x w	...	K. sw	...	K.	...	K.	...	K.	...	16
Nim.	...	Str.	...	Nim.	...	Nim.	...	Nim.	...	Str.	...	17
Str.	...	Str.	...	K. str.	...	Str.	...	K.	...	Str.	...	18
K. w x n	Cir. k. w	K. w x n	...	...	...	...	...	...	...	...	...	19
Nim.	...	Nim.	...	Nim.	...	Nim.	...	K.	...	Nim.	...	20
K.	Cir.	K.	...	K.	...	K.	...	Str.	...	Str.	...	21
K. str. w	...	K.	...	K.	...	K.	...	Str.	...	Str.	...	21

APRIL 1903.

[illegible]

MAY 1903.

[illegible]

APRIL 1903.

PHENOMENA.	MAY 1903.
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MAY 1903.

Digitized by Google

JUNE 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
1		...			...			...	...	...		...
2					...			...	...	...		
3		...			...			...	...	...		
4					...			...	...	...		
5					...			...	...	...		
6					...			...	...	...		
7					...			...	...	...		
8					...			...	...	...		
9					...			...	...	...		
10					...			...	...	...		
11					...			...	...	...		
12					...			...	...	...		
13					...			...	...	...		
14					...			...	...	...		
15					...			...	...	...		
16					...			...	...	...		
17					...			...	...	...		
18					...			...	...	...		
19					...			...	...	...		
20					...			...	...	...		
21					...			...	...	...		
22					...			...	...	...		
23					...			...	...	...		
24					...			...	...	...		
25					...			...	...	...		
26					...			...	...	...		
27					...			...	...	...		
28					...			...	...	...		
29					...			...	...	...		
30					...			...	...	...		

JULY 1903.

[illegible]

JUNE 1903.

[illegible]

PHENOMENA.

AUGUST 1903.

13	14	15	16	17	18	19	20	21	22	23	Midnight.	
...	...	...	...	...	...	...	...	...	...	...	...	1
*V ⁰	*V ⁰	*V ⁰	*V ⁰	*V ⁰	* ⁰	...	*B	* ⁰ +	B	+	...	2
...	...	...	...	...	...	...	...	...	...	...	...	3
...	...	...	...	...	...	...	...	...	...	...	...	4
*+	...	...	...	...	...	...	...	...	...	...	...	5
* ⁰	...	...	...	...	...	...	...	...	...	...	...	6
*V ⁰	...	...	...	...	...	...	...	...	...	...	...	7
●V	●V	●V	●V	●V	●V ⁰	V ⁰	*V ⁰	...	...	...	...	8
...	...	...	...	...	...	...	...	...	...	...	...	9
...	...	...	...	...	...	...	...	...	...	...	...	10
...	...	...	...	...	...	...	...	...	...	...	...	11
...	...	...	...	...	...	...	...	...	...	...	...	12
...	...	...	...	...	...	...	...	...	...	...	...	13
...	...	...	...	...	...	...	...	...	...	...	...	14
...	...	...	...	...	...	...	...	...	...	...	...	15
...	...	...	...	...	...	...	...	...	...	...	...	16
...	...	...	...	...	...	...	...	...	...	...	...	17
...	...	...	...	...	...	...	...	...	...	...	...	18
...	...	...	...	...	...	...	...	...	...	...	...	19
...	...	...	...	...	...	...	...	...	...	...	...	20
...	...	...	...	...	...	...	...	...	...	...	...	21
...	...	...	...	...	...	...	...	...	...	...	...	22
...	...	...	...	...	...	...	...	...	...	...	...	23
...	...	...	...	...	...	...	...	...	...	...	...	24
...	...	...	...	...	...	...	...	...	...	...	...	25
...	...	...	...	...	...	...	...	...	...	...	...	26
...	...	...	...	...	...	...	...	...	...	...	...	27
...	...	...	...	...	...	...	...	...	...	...	...	28
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...	...	...	...	...	...	...	...	...	...	...	...	30
...	...	...	...	...	...	...	...	...	...	...	...	31

PHENOMENA.

SEPTEMBER 1903.

13	14	15	16	17	18	19	20	21	22	23	Midnight.	
...	...	...	...	...	...	...	...	...	...	...	...	1
*+	*+	+	+	+	+	+	+	+	+	+	+	2
...	...	...	...	...	...	...	...	...	...	...	...	3
...	...	...	...	...	...	...	...	...	...	...	...	4
...	...	...	...	...	...	...	...	...	...	...	...	5
...	...	...	...	...	...	...	...	...	...	...	...	6
...	...	...	...	...	...	...	...	...	...	...	...	7
...	...	...	...	...	...	...	...	...	...	...	...	8
...	...	...	...	...	...	...	...	...	...	...	...	9
...	...	...	...	...	...	...	...	...	...	...	...	10
...	...	...	...	...	...	...	...	...	...	...	...	11
...	...	...	...	...	...	...	...	...	...	...	...	12
...	...	...	...	...	...	...	...	...	...	...	...	13
...	...	...	...	...	...	...	...	...	...	...	...	14
...	...	...	...	...	...	...	...	...	...	...	...	15
...	...	...	...	...	...	...	...	...	...	...	...	16
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...	...	...	...	...	...	...	...	...	...	...	...	18
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...	...	...	...	...	...	...	...	...	...	...	...	20
...	...	...	...	...	...	...	...	...	...	...	...	21
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...	...	...	...	...	...	...	...	...	...	...	...	23
...	...	...	...	...	...	...	...	...	...	...	...	24
...	...	...	...	...	...	...	...	...	...	...	...	25
...	...	...	...	...	...	...	...	...	...	...	...	26
...	...	...	...	...	...	...	...	...	...	...	...	27
...	...	...	...	...	...	...	...	...	...	...	...	28
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...	...	...	...	...	...	...	...	...	...	...	...	30

PHENOMENA.

OCTOBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
1	*	†	...	...	...	...	...	*V _∞	*V	*V	*V	...
2	*†	*†	*†	*†	*†	*†	*†	*†	†	†	†	*†
3	V ⁰	V	V ⁰	...	...	...	V ⁰	V ⁰	V ⁰	V ⁰	V ⁰	V ⁰
4	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...
6	...	V ⁰	*	●V	V ⁰	V ⁰	V ⁰	V ⁰	V ⁰	V ⁰	V ⁰	...
7	*	*	*	*	* ⁰	*	*	*	* ⁰	* ⁰	* ⁰	...
8	*	*	*	*	* ⁰	* ⁰	* ⁰	* ⁰	* ⁰	* ⁰	* ⁰	* ⁰
9	*	*	*	*	...	* ⁰	* ⁰	* ⁰	* ⁰	*	*	...
10	...	...	* ⁰	* ⁰	*	* ⁰	* ⁰	* ⁰	...	*	...	...
11	...	...	*	* ⁰	...	...	...	...	...	...	...	...
12	...	* ⁰	* ⁰	*	*	* ⁰	*	...	* ⁰	...	∞	∞
13	...	...	...	...	*	...	...	* ⁰	...	...	...	* ⁰
14	...	*	...	†	...	...	†	...	†	†	...	...
15	...	...	]	...	...	...	* ⁰	...	...	...	...	...
16	...	...	†	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	∞	∞	...	...	∞	*	*
19	...	...	...	...	...	...	...	...	...	...	∞	...
20	†	...	...	...	...	...	...	...	...	...	*	...
21	...	...	...	...	...	...	...	...	...	...	...	...
22	* ⁰	...	* ⁰	...	...	...	...	...	...	...	...	...
23	* ⁰	* ⁰	* ⁰	...	...	...	...	...	...	...	...	...
24	...	...	*	*	*	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	* ⁰	...	*†	...
26	...	...	...	...	...	...	...	...	∞	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	∞	...	∞	...	*	...
29	*	●	...	...	...	...	...	...	...	...	*	...
30	* ⁰	* ⁰	*	* ⁰	* ⁰	* ⁰	*	*	*	...	...	*
31	...	...	...	...	...	...	...	...	...	...	...	...

PHENOMENA.

NOVEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
1	*†	*†	† ⁰	...	...	...	...	...	...	...	* ⁰	* ⁰
2	...	*†	...	...	...	...	...	...	...	...	...	...
3	...	†	V ⁰	V ⁰ ●	...	...	...	...	...	...	...	...
4	...	* ⁰	*	*	*	†	*†	...	†	▲	*	...
5	...	*	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	* ⁰	●
7	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...
9	...	]	]	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	V ⁰	...
11	†	†	†	†	...	...	...	...	...	∞	...	...
12	*†	...	...	...	...	...	...	...	...	...	...	...
13	†	†	†	†	...	...	...	* ⁰	∞	...	...	...
14	†	†	...	*†	*†	*†	†	...	...	...	*	▲
15	†	†	...	* ⁰	...	...	...	...	...	...	...	...
16	* ⁰	* ⁰	* ⁰	* ²	*	●	●	● ⁰	● ⁰	● ⁰	* ⁰	* ⁰
17	...	...	...	...	...	...	...	...	* ⁰	* ⁰	...	...
18	*†	†	†	...	†	▲†	*†	†	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	●V	● ² V	*†V	*†V	*†	*†	*†	* ⁰	...
21	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...
27	* ⁰	*	* ⁰	...	* ²	...	...	...	...	...	...	...
28	* ⁰	*	* ⁰	* ⁰	*	*	*	*	* ²	* ²	...	...
29	*	*	V	V●	V●	V●	V●	V*	V*	...	*	*
30	...	...	...	...	...	...	...	...	...	...	...	...

PHENOMENA.

DECEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
1	...	...	...	...	* ⁰	...	...	...	...	* ⁰	* ⁰	* ⁰
2	*	* ⁰	* ⁰	* ²	*	* ⁰	*	...	...	...	*	*
3	* ⁰	...	...	...	...	...	...	...	...	...	...	...
4	...	*	*	* ⁰	* ⁰	...	...	...	* ⁰	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...
6	...	Δ ⁰	*	* ⁰	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	* ⁰	* ⁰	* ⁰	* ⁰	* ⁰	*	*	*	...	...	...	...
9	+	+	+	+	+	+	+	+	+	+	+	+
10	+	+	+	+	+	+	+	+	+	+	+	+
11	*	* ²	* ⁰	* ⁰	* ⁰	* ⁰	...	...	...	* ⁰	*	...
12	*	*	*	*	*	...	...	...	...	...	...	...
13	* ⁰	* ⁰	* ⁰	* ⁰	* ⁰	* ⁰	* ²	* ⁰	*	* ²	* ⁰	* ²
14	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...
22	+	+	+	+	+	+	+	+	+	+	+	+
23	+	+	+	+	+	+	+	+	+	+	+	+
24	+	+	+	+	+	+	+	+	+	+	+	+
25	+	+	+	+	+	+	+	+	+	+	+	+
26	...	...	...	...	...	...	...	...	...	...	...	...
27	* ⁰	*	*	* ⁰	* ⁰	* ⁰	* ⁰	*	*	* ²	*	*
28	*	*	*	*	*	*	*	*	*	*	*	*
29	*	*	* ²	*	* ²	*	*	*	*	*	*	*
30	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...

PHENOMENA.

JANUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12
1	...	...	...	...	...	...	...	*	* ⁰	*	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...
3	* ⁰	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...
6	...	* ⁰	...	...	...	...	* ⁰	* ⁰	...	...	* ²	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	*	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...
12	* ⁰	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...
14	*	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...

DECEMBER 1903.

[illegible]

JANUARY 1904.

[illegible]

PHENOMENA.

DECEMBER 1903.

	1	2	3	4	5	6	7	8	9	10	11	12
1	...	...	...	...	* ⁰	...	...	...	...	* ⁰	* ⁰	* ⁰
2	*	* ⁰	* ⁰	* ²	*	* ⁰	...	...	...	...	*	*
3	* ⁰	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...
5	...	*	*	* ⁰	* ⁰	...	...	...	* ⁰	...	...	...
6	...	Δ ⁰	*	* ⁰	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	* ⁺	* ⁺	* ⁺	* ⁺	* ⁺	*	*	*	* ⁺	* ⁺	...	* ⁺
9	* ⁺	* ⁺	* ⁺	* ⁺	●	* ⁺	* ⁺	...	...	...	...	...
10	* ⁺	* ⁺	* ⁺	* ⁺	* ⁺	* ⁺	*	...	...	...	...	...
11	*	* ²	* ⁰	* ⁰	...	* ⁰	...	...	...	* ⁰	*	...
12	...	*	*	*	*	*	...	...	...	...	...	...
13	* ⁰	* ⁺	* ⁺	* ⁰	* ⁰	* ⁺	* ²	* ⁺	*	* ²	* ⁺	* ²
14	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...

PHENOMENA.

JANUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12
1	...	...	...	...	...	...	...	*	* ⁰	*	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...
3	* ⁰	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...
6	...	* ⁰	...	...	...	...	* ⁰	* ⁰	...	...	* ²	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	*	● ⁰	● ⁰	● ⁰	● ⁰	● ⁰	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...

PHENOMENA.

DECEMBER 1903.

13	14	15	16	17	18	19	20	21	22	23	Midnight.	
* ⁰	* ⁺ ₀	* [∞]	* ⁺ ₀	* ⁺ ₀	*	* ⁰	* ⁰	*	*	*	* ²	1
▲ ²	...	* ⁰	* ⁰	...	...	* ⁰	...	* ⁰	...	...	* ²	2
* ⁰	* ⁰	* ⁰	* ⁰	*	* ⁺ ₀	*	*	*	*	*	*	3
...	...	...	...	...	...	...	...	...	...	∞	...	4
...	...	...	...	...	...	...	...	...	...	...	...	5
...	...	...	...	...	...	...	...	...	...	...	...	6
* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	7
* ⁺ ₀	...	...	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	8
...	...	...	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	*	*	9
* ⁰	* ⁰	...	...	* ⁰	*	*	* ⁰	*	*	*	*	10
* ²	* ⁺ ₀	*	* ⁰	* ⁰	* ⁰	...	...	...	*	* ⁰	* ⁺ ₀	11
...	...	...	...	...	...	...	...	...	...	...	...	12
...	...	...	...	...	...	...	...	...	...	...	...	13
...	...	...	...	...	...	...	...	...	...	...	...	14
...	...	...	...	...	...	...	...	...	...	...	...	15
...	...	...	* ²	* ⁺ ₀	* ⁺ ₀	* ⁺ ₀	...	...	...	...	...	16
...	...	...	...	...	...	...	...	...	...	...	...	17
...	...	...	...	...	...	...	...	...	...	...	...	18
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...	...	...	...	...	...	...	...	...	...	...	...	20
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...	...	...	...	...	...	...	...	...	...	...	...	22
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...	...	...	...	...	...	...	...	...	...	...	...	30
...	...	...	...	...	...	...	...	...	...	...	...	31

PHENOMENA.

JANUARY 1904.

13	14	15	16	17	18	19	20	21	22	23	Midnight.	
...	...	...	...	...	...	...	...	● ⁰ _V	...	* ⁰	*	1
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...	...	...	...	...	...	...	...	...	...	...	...	8
...	...	...	...	...	...	...	...	...	...	...	...	9
...	...	...	...	...	...	...	...	...	...	...	...	10
...	...	...	...	...	...	...	...	...	...	...	...	11
...	...	...	...	...	...	...	...	...	...	...	...	12
...	...	...	...	...	...	...	...	...	...	...	...	13
...	...	...	...	...	...	...	...	...	...	...	...	14
...	...	...	...	...	...	...	...	...	...	...	...	15
...	...	...	...	...	...	...	...	...	...	...	...	16
...	...	...	...	...	...	...	...	...	...	...	...	17
...	...	...	...	...	...	...	...	...	...	...	...	18
...	...	...	...	...	...	...	...	...	...	...	...	19
...	...	...	...	...	...	...	...	...	...	...	...	20
...	...	...	...	...	...	...	...	...	...	...	...	21
...	...	...	...	...	...	...	...	...	...	...	...	22
...	...	...	...	...	...	...	...	...	...	...	...	23
...	...	...	...	...	...	...	...	...	...	...	...	24
...	...	...	...	...	...	...	...	...	...	...	...	25
...	...	...	...	...	...	...	...	...	...	...	...	26
...	...	...	...	...	...	...	...	...	...	...	...	27
...	...	...	...	...	...	...	...	...	...	...	...	28
...	...	...	...	...	...	...	...	...	...	...	...	29
...	...	...	...	...	...	...	...	...	...	...	...	30
...	...	...	...	...	...	...	...	...	...	...	...	31

PHENOMENA.

FEBRUARY 1904.

	1	2	3	4	5	6	7	8	9	10	11	12
1	...	...	*	* ² ↑	* ² ↑	* ² ↑	* ² ↑	* ² ↑	* ²	* ² ↑	● ⁰	● ⁰
2	...	● ⁰	*	*	* ² ↑	...	...	* ² ↑	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...
4	● ⁰	● ⁰	● ⁰	● ⁰	● ⁰	...	...	...	● ⁰	● ⁰	...	*
5	● ⁰	*	● ⁰	● ⁰	● ⁰	● ²	● ⁰	...	...	...	...	...
6	...	...	*	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	* ²	*	...	...
9	● ⁰	●	●	●∞	∞	∞	∞	●	● ²	●	● ⁰	∞
10	...	...	...	...	...	...	...	○	○ ⁰	○ ⁰	...	...
11	...	● ⁰	...	...	● ⁰	...	...	...	● ⁰	● ⁰	...	● ⁰
12	...	...	∞U	...	∞ ⁰	...	∞ ²	...	...	∞	...	∞
13	*	▲ ⁰	●	...	∞ ²	▲ ⁰ ∞	∞	...	...	...	...	...
14	...	*	...	...	...	...	...	...	* ⁰	* ⁰	* ⁰	* ²
15	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	*	*	*	* ⁰
17	...	●	●	●	...	...	...	...	...	...	● ⁰	● ²
18	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...
20	● ⁰	...	...	...	* ⁰	* ⁰	* ⁰	* ² ↑	* ² ↑	* ² ↑	* ² ↑	* ² ↑
21	...	...	*	*	*	...	* ²	* ⁰	* ² ↑	* ⁰	* ² ↑	...

PHENOMENA.

FEBRUARY 1904.

	13	14	15	16	17	18	19	20	21	22	23	Midnight.
1	● ⁰	● ⁰	● ⁰	● ⁰	* ⁰	* ⁰	*	* ⁰	* ⁰	● ⁰	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...
3	*	*	*	*	*	● ⁰ ▲	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...
5	∞	...	...	...	...	...	...	...	...	...	...	...
6	● ⁰	●	...	...	...	...	...	...	*	...	...	...
7	* ²	...	...	...	...	...	...	...	...	...	...	...
8	* ⁰	...	...	...	∞	...	...	...	...	...	...	...
9	∞	∞	∞	...	...	...	...	...	*	...	* ²	...
10	*	*	*	●	...	...	...	...	...	...	...	...
11	● ⁰	...	...	...	...	...	...	...	...	...	...	...
12	∞	∞	∞	...	*	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	*	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...
16	* ⁰	...	●	*	*	*	● ⁰	...	●	*	●	●
17	...	...	...	...	...	...	...	...	...	...	...	...
18	● ²	...	*	...	...	...	...	...	...	...	...	...
19	...	...	∞	...	...	...	...	...	*	...	...	...
20	* ² ↑	* ² ↑	*	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...

METEOROLOGICAL LOG
OF THE
“SCOTIA”

VOL. II.

25

INTRODUCTION.

THE Meteorological Log of the "Scotia" extends from 1st January 1903 to 14th February 1904, and from 23rd February to 5th May 1904.

Until 25th March 1903 the vessel was engaged in her first Antarctic cruise, while the period embraced in the second Antarctic cruise extends from 23rd February to 5th May 1904. With these exceptions the remarks refer to the weather conditions at Laurie Island, South Orkneys, until the transference of the Station to the Argentine Meteorological Office in February 1904. On 1st November 1903 the observations were transferred from the ship to Omond House, where, it may be observed, the winds were not so true as at the winter quarters in Scotia Bay.

The notes given are intended to supplement the data given in the tables, and thus draw attention to some of the more noteworthy phenomena which might not be observed on inspection of the general tables.

During the voyage of the "Scotia" to and from Buenos Aires, as well as during her second Antarctic cruise, Mr MOSSMAN was absent at Laurie Island, so that for the second Antarctic cruise the notes recorded by Mr W. S. BRUCE are given.

METEOROLOGICAL LOG OF THE "SCOTIA."

1903.

Jan. 1.—At noon, lat. $39^{\circ} 01'$ S. long. $53^{\circ} 40'$ W.—A very fine day. Sky cloudless after 7 a.m. except for a little cumulus on the horizon. Air calm and sea smooth, but slight swell from S.E. most of day. The temperature of the sea fell quickly from $70^{\circ} \cdot 1$ at 4^h to $55^{\circ} \cdot 8$ at midnight.

Jan. 2.—At noon, lat. $41^{\circ} 38'$ S. long. $54^{\circ} 40'$ W.—A very fine day, with continuous sunshine till noon. Then upper sky partly covered with cirrus, cir.-str. and cir.-cum. types. Sheet lightning to W. at 8^h , and again at midnight, when the discharges seemed to emanate from a cumulo-form cloud low down on western horizon.

Jan. 3.—At noon, lat. $45^{\circ} 29'$ S. long. $56^{\circ} 30'$ W.—Overcast throughout except at 1^h and 19^h . Hazy and dull a.m., but fog or mist from 13^h . The mist was very wetting, and resembled a "Scotch mist" or "E. haar." Several flashes of sheet lightning were seen after 22^h . Wind rather variable, but chiefly N. Sea slight.

Jan. 4.—At noon, lat. $47^{\circ} 37'$ S. long. $57^{\circ} 25'$ W.—Cloudy most of the day except for a few hours after noon. Thunder and lightning (the latter frequently), with rather heavy rain till 4^h and thunder again at 9^h . Lightning again after 22^h , with drizzling rain. Barometer falling steadily. Temperature also falling and air damp. Light to fresh N.W. breezes with slight sea.

Jan. 5.—At noon, lat. $49^{\circ} 55'$ S. long. $59^{\circ} 44'$ W.—A good deal of sheet lightning with a wetting mist from 1^h to 3^h . Fine day. Barometer rising. Wind rather strong from 15^h to 21^h .

Jan. 28.—At noon, lat. $54^{\circ} 35'$ S. long. $51^{\circ} 50'$ W.—Sky overcast, with a misty haze round horizon and on the water. Rather fresh N.N.W. breezes till 22^h , blowing rather strong since with a moderate sea. Barometer falling quickly all day, with showers of rain from 13^h to 16^h .

Jan. 29.—At noon, lat. $56^{\circ} 10'$ S. long. $49^{\circ} 20'$ W.—Dull throughout, with showers of sleet and rain. Very heavy S.W. gale p.m., reaching a force of 8 to 10. Barometer rising quickly and temperature falling. Hazy a.m., vessel hove to most of day.

Jan. 30.—At noon, lat. $56^{\circ} 28'$ S. long. $47^{\circ} 52'$ W.—Overcast except at 11^h and 13^h , 23^h and midnight. A moderate sea till 17^h , when it fell considerably. Barometer fairly steady and temperature very steady. S.W. winds till 7^h , and N.W. and N. since. Misty at times round horizon.

Jan. 31.—At noon, lat. $58^{\circ} 14'$ S. long. $45^{\circ} 15'$ W.—Wind light from N.W. most of day, falling calm in evening, and at 22^h changing to S.E. with falling

temperature. Very misty at times, lifting a little towards evening. Barometer falling till about noon, rather steady since. Slight showers of sleet.

Feb. 1.—At noon, lat. $59^{\circ} 32'$ S. long. $43^{\circ} 10'$ W.—Snowing heavily at 1^h . At 3^h it began to clear up to windward and there was a fine sunrise. Barometer rising till about noon, falling slowly since. Sky clear and air dry all afternoon. Temperature low and falling in evening. Light S. (S.E. to S.W.) breezes.

Feb. 2.—At noon, lat. $60^{\circ} 28'$ S. long. $43^{\circ} 40'$ W.—We came to edge of pack shortly after midnight. Dull and misty throughout, with occasional snow showers. Variable winds, chiefly N. till noon and W. and S.W. since. Temperature steady and air damp.

Feb. 3.—At noon, lat. $60^{\circ} 23'$ S. long. $44^{\circ} 00'$ W.—Overcast throughout and very hazy. Barometer steady till about 15^h , rising slowly after. Temperature falling after 14^h , when we entered fairly heavy ice. Light W. and S.W. winds.

Feb. 4.—At noon, lat. $60^{\circ} 37'$ S. long. $44^{\circ} 52'$ W.—Low temperature throughout. Overcast except for a short time in early morning. Light S. winds. Outlook generally very wintry.

Feb. 5.—At noon, lat. $61^{\circ} 06'$ S. long. $43^{\circ} 40'$ W.—Overcast throughout. Barometer rising steadily all day. Temperature fairly steady. Air dry. Light S.W., W. and N.W. airs. Steaming through pack ice with occasional lanes of open water all day.

Feb. 6.—At noon, lat. $60^{\circ} 10'$ S. long. $42^{\circ} 35'$ W.—Practically overcast throughout, but sun gleaming so as to admit of observations for position. Temperature fairly steady and air dry, but getting rapidly damp at midnight, when snow was falling. Light N. and E. winds, rather gusty at times in evening. Barometer steady most of day, but falling a little after 20^h .

Feb. 7.—At noon, lat. $60^{\circ} 03'$ S. long. $39^{\circ} 44'$ W.—Steaming through loose pack ice most of day. Overcast throughout, with showers of snow, sleet, and rain. Silver thaw till about 15^h , the ship's rigging being covered with transparent sheet of hard ice. Light winds till 16^h , rather fresh breezes since. Direction chiefly N. Barometer falling. Temperature steady and air damp.

Feb. 8.—At noon, lat. $59^{\circ} 44'$ S. long. $36^{\circ} 40'$ W.—Thick, with mist and fog in early morning. A little sunshine was recorded between 9^h and 14^h , but only at the latter hour was it bright. Barometer fairly steady till 14^h ; falling slowly since. Light N. airs and breezes most of day except from 6^h to noon, when it was principally S.W. Air damp.

Feb. 9.—At noon, lat. $59^{\circ} 42'$ S. long. $34^{\circ} 13'$ W.—Overcast, except at 21^h . N.W. winds (very light) till 5^h , then calm till 9^h , and chiefly S. since. Barometer rising rather quickly at times, temperature steady. Slight showers of snow in forenoon, with mist at times. During the day steaming through pack, with open water at times.

Feb. 10.—At noon, lat. $60^{\circ} 05'$ S. long. $32^{\circ} 10'$ W.—Barometer rising till 7^h , steady till 13^h , and falling since, briskly since 16^h . Temperature steady, except for a well-marked rise during the early afternoon. Wind S.W. or S. till 11^h , calm till 16^h , and N.E. since, and increasing in force. Cloudy in morning, but fine and sunny during afternoon, becoming overcast again at night. Sailing and steaming through pack all day.

Feb. 11.—At noon, lat. $60^{\circ} 03'$ S. long. $32^{\circ} 31'$ W.—Barometer falling till 8^h , rising quickly since 13^h . Temperature very steady. Strong E. and N.E. winds till 15^h , falling light since. Snow showers in early morning, dull but fair during rest of day. Air dry in morning, but humidity increasing at night. Steaming through fairly loose pack most of day.

Feb. 12.—At noon, lat. $59^{\circ} 49'$ S. long. $31^{\circ} 32'$ W.—Overcast throughout, with thin mist at times and slight silver thaw. Barometer rising till 9^h , falling slowly till 16^h , and quickly since. Temperature very steady and air damp. Calm till 3^h , light N. and N.E. breezes till 17^h , increasing in force since. Steaming most of day through loose pack. Snow was falling at 21^h and midnight.

Feb. 13.—At noon, lat. $59^{\circ} 43'$ S. long. $30^{\circ} 44'$ W.—Overcast throughout, with snow showers and drift in early morning. Silver thaw at 4^h , 5^h , and 7^h . A little fog at times. Drizzling rain p.m. Wind N. most of day, blowing a fresh to strong breeze in early part of day, taking off p.m. Temperature steady, air damp, barometer falling rather quickly till 9^h , slowly since.

Feb. 14.—At noon, lat. $59^{\circ} 33'$ S. long. $27^{\circ} 37'$ W.—Barometer rising till 17^h , steady since. Snow showers in early morning. Dull throughout except for brief time about 23^h . Temperature very steady and air rather dry on the whole. Light to strong N.W. and W. winds. Rather perceptible swell from N.W. most of day.

Feb. 15.—At noon, lat. $61^{\circ} 37'$ S. long. $26^{\circ} 10'$ W.—Generally overcast. Barometer rising steadily after 9^h . Slight snow showers at intervals. N. winds a.m., veering to the W. later. Sea slight, but a well-marked swell from S.E. Temperature very steady and air damp. In open water, with occasional streams of pack.

Feb. 16.—At noon, lat. $62^{\circ} 52'$ S. long. $25^{\circ} 00'$ W.—Barometer rising steadily, rather briskly at times. Light S.W. breezes all day. Temperature very steady and air damp. Overcast except for slight breaks at about 6^h , 7^h , and 16^h . Considerable swell from S.E. most of day. In open water, with occasional streams of pack ice. Berge numerous till 22^h .

Feb. 17.—At noon, lat. $64^{\circ} 18'$ S. long. $23^{\circ} 09'$ W.—Overcast most of day, but clear for short time in early morning. Barometer rising till 10^h , falling since. Temperature steady and air rather dry. S.W. winds light in force in morning, but N. and N.E. since 8^h , and blowing rather fresh at night. Squally at times between 23^h and 24^h .

Feb. 18.—At noon, lat. $66^{\circ} 05'$ S. long. $23^{\circ} 46'$ W.—Barometer falling till 9^h hours, rising since. Overcast throughout. Moderate gale from E. till noon, wind much the same direction later, but lighter in force. Temperature steady and air fairly dry. Rather heavy sea from 7^h till noon.

Feb. 19.—At noon, lat. $68^{\circ} 33'$ S. long. $24^{\circ} 31'$ W.—Barometer rising till 14^h , almost steady since. Temperature steady till 16^h , falling decidedly later. Wind E. till 14^h , then S.E. till 20^h , but veering to S. since. Light in force all day. Clear for a short time in early morning, overcast rest of day. A little granular snow fell in evening, the shape of the pellets resembling soft hail.

Feb. 20.—At noon, lat. $69^{\circ} 39'$ S. long. $22^{\circ} 58'$ W.—Barometer falling slowly, temperature fairly steady and air dry. S. and S.E. light airs in early morning, but backing to S.W. p.m. and increasing to a moderate breeze. Overcast most of day, but clearing at times. Steaming through fairly open water most of day. Young ice forming.

Feb. 21.—At noon, lat. $69^{\circ} 46'$ S. long. $19^{\circ} 10'$ W.—Barometer very steady. Temperature steady till 19^h , falling since. W. or S.W. breezes till 17^h , calm since. A little snow fell in early morning, and again at 10^h and 11^h . Air very dry at times, humidity at 8^h and 17^h being only 50 per cent.

Feb. 22.—At noon, lat. $70^{\circ} 21'$ S. long. $17^{\circ} 00'$ W.—Barometer rising till noon, then steady till 18^h , and falling since. Temperature falling till 5^h , rising till 17^h , and falling since. Air very dry at times, humidity at 15^h being 60 per cent. Light variable airs and calm most of day. Fine and sunny, sky being overcast at 22^h only.

Feb. 23.—At noon, lat. $69^{\circ} 57'$ S. long. $16^{\circ} 53'$ W.—Cloudy most of day, with slight showers of snow. Barometer falling slowly till 23^h . Temperature fairly steady most of day and air dry. Light S. and S.E. winds. Solar halo at 18^h . In heavy pack all day, closely beset. New ice from 3 to 5 inches thick. Mist at 20^h and 21^h .

Feb. 24.—At noon, lat. $69^{\circ} 52'$ S. long. $17^{\circ} 22'$ W.—Overcast most of day except for short time in early morning. Barometer rising steadily all day. Temperature fairly steady. Light to moderate winds, chiefly S.E. A little snow at times p.m. During day have been steaming through pack ice. Very little open water. New ice 9 inches thick in parts.

Feb. 25.—At noon, lat. $69^{\circ} 44'$ S. long. $18^{\circ} 02'$ W.—Overcast in morning, cloudless from 9^h to 18^h , and overcast again at night. Barometer rising steadily. Rather strong S. breezes in morning, light from W. and S.W. rest of day. Temperature steady and air dry at times. Steaming through thick pack ice from 5^h to 18^h , and in fairly open water since.

Feb. 26.—At noon, lat. $69^{\circ} 36'$ S. long. $20^{\circ} 20'$ W.—Overcast throughout except at 6^h . Barometer rising till 13^h , and falling slowly since. Temperature low and steady till noon, then rising. Humidity variable, being low at times from 10^h to 20^h . Light variable winds, chiefly N.

Feb. 27.—At noon, lat. $69^{\circ} 32'$ S. long. $24^{\circ} 00'$ W.—Barometer falling slowly most of day. Temperature very steady. Air dry at times from 8^h to 15^h , damp rest of day. Fresh to strong N. breezes. Slight snow at 19^h . Overcast throughout.

Feb. 28.—At noon, lat. $69^{\circ} 22'$ S. long. $26^{\circ} 36'$ W.—Barometer falling till 19^h p.m., steady since. Temperature fell till 10^h , steady since. Air dry. N. and E. breezes till 20^h , S.E. since and light in force. Overcast throughout. Hove to from 9^h to 20^h , taking a series of soundings, etc.

March 1.—At noon, lat. $69^{\circ} 03'$ S. long. $28^{\circ} 02'$ W.—Barometer rising steadily. Temperature steady and air very dry at times, humidity at 17^h being only 47 per cent. Light E. airs (N.E. to S.E.) all day. Overcast throughout and very gloomy at times. Sailing or steaming during day through loose pancake or bay ice, with occasional tracks of open water.

March 2.—At noon, lat. $68^{\circ} 40'$ S. long. $30^{\circ} 18'$ W.—Barometer rising slowly till 18^h , very steady since and air dry. Very light E. and N. winds, all falling calm at times. Overcast throughout. A few flakes of snow falling at times. During the day the "Scotia" has been in practically open water covered with young ice.

March 3.—At noon, lat. $68^{\circ} 35'$ S. long. $31^{\circ} 56'$ W.—Barometer rising till 19^h , steady since. Temperature rising on the whole. Air dry at times, but considerable humidity at intervals. Light N. winds. Overcast throughout, with snow at times. Passing during day through pancake ice. Many bergs.

March 4.—At noon, lat. $68^{\circ} 22'$ S. long. $32^{\circ} 35'$ W.—Barometer falling all day. Temperature steady. Air dry at times. Light to moderate N. and N.W. winds. Overcast throughout. Passing during day through loose ice, principally in open sea after 18^h . Many bergs. Snow at times a.m.

March 5.—At noon, lat. $68^{\circ} 11'$ S. long. $34^{\circ} 17'$ W.—Barometer falling till 5^h , rising since, briskly since 7^h . Temperature fell quickly after 4^h , reaching a minimum at 11^h . Rather higher and unsteady since. Air damp. Rather strong N. and N.W. breezes till 6^h , W. since. Sky overcast throughout. During the day we have been in open water with the pack to E. and S.E.

March 6.—At noon, lat. $67^{\circ} 39'$ S. long. $36^{\circ} 10'$ W.—Barometer rising till 7^h , falling since. Temperature falling till 5^h , rising till 4^h , steady since. Air damp, being saturated with mist at times. Wind E. or calm till 7^h , but backing through N. to E. since. Overcast throughout with drizzling rain a.m., producing slight silver thaw and snow showers p.m. Stopped since 7^h for sounding and trawling. At 1^h there was an appearance of an auroral light on the clouds to S. and S.E.

March 7.—At noon, lat. $67^{\circ} 33'$ S. long. $36^{\circ} 35'$ W.—Barometer falling slowly. Temperature steady and air damp. Moderate to strong winds (N.E.), increasing in force at night and blowing a gale. Overcast throughout.

March 8.—At noon, lat. $67^{\circ} 22'$ S. long. $37^{\circ} 36'$ W.—Barometer falling quickly, temperature steady and air damp. N.E. gale in morning, backing to E.S.E. p.m. and blowing a heavy gale. Overcast throughout, with almost continuous snow after 3^h , except at 20^h and 21^h , when drizzling rain was falling, producing silver thaw. Heavy swell from E. all day. Alternately passing through bay ice (with heavy pieces) and open pools of water.

March 9.—At noon, lat. $67^{\circ} 10'$ S. long. $39^{\circ} 00'$ W.—Barometer rising slowly and irregularly all day. Temperature very steady and air damp. Moderate to strong E. winds. Overcast except at 7^h . Showers of

snow most of day and drizzling rain at 20^h and 21^h , producing silver thaw. Steaming through pack with occasional large expanses of open water all day. Heavy E.S.E. swell a.m., diminishing p.m., and almost gone at midnight.

March 10.—At noon, lat. $66^{\circ} 40'$ S. long. $40^{\circ} 35'$ W.—Barometer rising, temperature steady till 18^h , falling slowly since. Air damp. Strong S.E. winds all day. Overcast except at 7^h , snow showers at intervals throughout. In fairly open water most of day, with occasional pancake ice. One berg (flat-topped) visible in evening.

March 11.—At noon, lat. $66^{\circ} 22'$ S. long. $42^{\circ} 20'$ W.—Overcast throughout, but sun gleaming faintly at times. Barometer rising steadily, temperature very steady. Air damp in morning, but humidity below 80 per cent. since 15^h . Strong southerly winds, blowing almost with the force of a gale at times. Snow fell at 13^h , 14^h , and 22^h . In fairly open water, with occasional patches of ice.

March 12.—At noon, lat. $65^{\circ} 29'$ S. long. $44^{\circ} 06'$ W.—Barometer rising slowly. Temperature falling slowly till 9^h , and quickly since. Air damp, strong S. winds all day, diminishing in force at night. Overcast throughout. Slight snow at times. In fairly open water most of day with occasional patches of ice. New ice forming quickly at night.

March 13.—At noon, lat. $64^{\circ} 48'$ S. long. $44^{\circ} 25'$ W.—Barometer rising slowly. Temperature very low, being under 10° till 14^h . Air damp. Light N. airs till 17^h . Calm or light from the N.E. since. Sky generally overcast since. A little snow at 13^h and 15^h .

March 14.—At noon, lat. $64^{\circ} 30'$ S. long. $43^{\circ} 45'$ W.—Barometer falling slowly most of day. Temperature rising quickly after 5^h . Air dry from 9^h to 18^h . Light N. and N.E. winds a.m., but increasing to a fresh, strong breeze in the evening. Occasional bright sunshine from 9^h to 15^h , overcast rest of day, with slight snow in evening. Many bergs, mostly weatherworn stumps.

March 15.—At noon, lat. $64^{\circ} 11'$ S. long. $42^{\circ} 15'$ W.—Barometer falling slowly. Temperature steady and air rather damp. Light N. and N.E. breezes till 8^h , but blowing strongly from N.E. since, and approaching the force of a moderate gale at midnight. Overcast throughout. A few bergs seen. During the day we have been in open water, with occasional patches of pancake ice.

March 16.—At noon, lat. $63^{\circ} 51'$ S. long. $41^{\circ} 50'$ W.—Barometer rising till about noon, falling since. Temperature very steady and air rather damp. Fresh to moderate N.E. winds. Overcast throughout, with slight snow at 18^h and drizzling rain in evening. During day in alternate patches of ice and water.

March 17.—At noon, lat. $63^{\circ} 08'$ S. long. $42^{\circ} 30'$ W.—Barometer rising steadily throughout. Temperature high and steady till 10^h , and rising slightly since. Air damp till noon, dry on the whole afterwards. Light N.W. breezes most of day. Overcast except at 3^h , 6^h , and 7^h . Mist after 4^h and 5^h , and slight snow showers at times. Principally in open water or loose ice during day.

March 18.—At noon, lat. $62^{\circ} 10'$ S. long. $41^{\circ} 20'$ W.—Barometer rising slowly till noon, falling slowly since. Temperature rose till 5^h and remained steady rest of day. Air damp in morning, but rather dry p.m. Very light N. airs a.m., N. and N.E. p.m. and blowing a light to moderate breeze. Fine to sunny at times between 7^h and noon,

generally overcast rest of day. A little drizzling rain fell in early morning and there was mist at 4^h. In fairly open water, with occasional ice.

March 19.—At noon, lat. 61° 22' S. long. 42° 05' W.—Barometer falling slowly till 8^h, rising slowly since. Air damp after 16^h, with mist at times and passing showers of snow. Light variable breezes, chiefly N. and N.E. Overcast throughout. In a good deal of open water during day, but in very heavy weatherworn old pack at 6^h and 7^h and after 17^h.

March 20.—At noon, lat. 61° 05' S. long. 43° 20' W.—Barometer falling rather quickly throughout. Temperature high and fairly steady. Light N.E. breezes till about noon, but veering to the N.W. and blowing a strong breeze p.m. Overcast except at 22^h. Snow fell at 6^h, 7^h, and 10^h, and rain at 9^h, 14^h, and 23^h. Mist at times till 13^h. Rather a heavy sea running in evening.

March 21.—At noon, close to Cape Dundas, S. Orkney.—Barometer rising slowly most of day. Temperature falling slowly till 15^h, and rising a little since. Air dry most of day. Variable W. strong winds all day. Sky cloudy, with snow at times. A very heavy swell from the N.W. was experienced after 17^h, by which time we were beyond the shelter of the S. Orkneys.

March 22.—At noon, near to Cape Bennett, S. Orkneys.—Barometer rising. Temperature rather steady till noon, falling since. Air very dry at times, the humidity at noon and 21^h being 57 per cent. Light N. breezes till 14^h, but blowing strongly in squalls at times since, and increasing to a moderate gale at midnight. Heavy snow at times p.m.

March 23.—At noon, to the S. of Laurie Island, S. Orkneys.—Barometer rising till 13^h, falling since, rather quickly since after 19^h. Temperature low and steady till 10^h, rising since. Air very dry till 18^h, the humidity at 11^h and noon being below 50 per cent. Wind chiefly W. and blowing a gale till 5^h, a strong breeze till 11^h, and moderating later, but backing to the N.E. Sky cloudy, with snow showers after 21^h.

March 24.—At noon, to the S. of Laurie Island, S. Orkneys, lat. 61° 14' S. long. 44° 50' W.—Barometer falling quickly till 14^h, when it read 28.184 inches, rising briskly since. Temperature high till 17^h, being mostly above the freezing point, but by midnight had fallen to 23° 9'. Air very damp till 17^h, humidity being over 90 per cent., but at midnight only 65. Rather strong squally N.E. winds a.m., but veering to the S., and blowing a heavy gale in evening. Sky generally overcast, but cloudless at 21^h and 22^h. Rain, hail, sleet, and snow at times till 17^h.

March 25.—At noon, off Cape Dundas, S. Orkneys.—Barometer rising throughout. Temperature rather unsteady. Air dry except from 13^h to 21^h. W. gale in early morning, but calm or light from the S.W. in the evening. Rather cloudy, but cloudless at 1^h and 9^h. A little snow at times. In the evening, anchored in Scotia Bay, on the S. side of Laurie Island.

March 26.—At Scotia Bay, S. Orkneys.—Barometer rising slowly. Temperature steady till 16^h, falling slightly since. Air rather dry. Very light S. airs or calm. Overcast throughout, snow at times.

March 27.—At Scotia Bay, S. Orkneys.—Barometer falling slowly on the whole. Temperature rising till about 14^h, rather steady since. Air damp. Calm in

early morning, and light N. (N.E. to N.W.) breezes since. Sky overcast except at 16^h. Mist at times with snow till 15^h, and rain at times since. Ice began to move out of bay at 14^h 30^m, and the ship was in open water an hour later.

March 28.—Barometer falling till 18^h, rising slightly since. Temperature falling steadily. Air very damp, being close to saturation all day. Light variable airs or calm in early morning, and S. winds and strong winds p.m. Overcast throughout, with mist at times and heavy snow, causing considerable drift. In the morning open water, but ice all round after 18^h.

March 29.—Barometer rising till 17^h, steady since. Temperature falling till noon, rising slightly till 21^h, and more quickly since. Air damp till 11^h, dry p.m., and very dry at 23^h and midnight. Strong squally S. winds till 14^h, backing to W. since. Overcast till 20^h, cloudless from 22^h till midnight. A good deal of powdery snow fell up to 20^h, causing considerable drift.

March 30.—Barometer rising slowly. Temperature falling, air very dry in early morning, but getting damp in evening. Light W. and N.W. winds in morning and S.W. p.m. Sky cloudy. Slight snow at 16^h and 17^h.

March 31.—Barometer rising steadily. Temperature falling till noon, very low and steady since. Air damp. Light S.W. breezes all day. Sky generally overcast. Squally at times.

April 1.—Temperature low and steady till 14^h, rising slightly since. Barometer rising steadily and rather quickly at times. Air damp. Light to fresh S.W. breezes all day. Sky generally overcast. Little snow in forenoon. Squally at times in evening. No sunshine.

April 2.—Barometer rising steadily till 17^h and falling since. Temperature low in morning, being 10° 4 at 8^h, but rising quickly in afternoon and evening, being up to 30° 0 at midnight. Air very damp in morning, but rather dry after 19^h. S.W. breezes till 7^h, backing to the N. and increasing in force p.m. Overcast except from 8^h till noon. Snow and sleet about 23^h.

April 3.—Barometer falling till 16^h, rising since. Temperature high and steady all day. Air very damp after 5^h, humidity being over 90 per cent. Strong squally N. and N.W. winds till 17^h, light S. airs since. Overcast, with rain at times, till 19^h, clearing since. An appearance of aurora was reported by Mr BRUCE at 20^h 30^m, but no trace of it could be seen at 20^h or 21^h. Open water 5 miles to S. No sun.

April 4.—Barometer falling till 16^h, rising since. Temperature rising till 10^h, and fairly steady rest of day. Air damp until 23^h, when the relative humidity fell to 72 per cent. Variable light breezes, chiefly N.W. Cloudless in early morning. Overcast from 4^h till 19^h, cloudless again at 23^h and midnight. Hail fell between 7^h and 8^h, and rain at times during day.

April 5.—Barometer rising till 9^h and falling rest of day. Temperature high and steady. Air damp, except for short time in early morning. N.W. breezes in morning, but increasing in force and becoming squally after 16^h. Sky cloudy, except in early morning. Slight showers of snow, sleet, and rain after 17^h.

April 6.—Barometer falling till 17^h, rising a little since. Temperature high and fairly steady till 14^h, falling since rather quickly after 19^h. Air damp till 17^h

and dry since. Light N.W. breezes till 20^h, veering to S.W. since. Sky generally cloudy. A little snow falling at times.

April 7.—Barometer rising slowly. Temperature falling till 7^h, low and steady since. Air damp, except for a few hours in early morning. Very light variable airs, chiefly S.S.W. Sky generally cloudy. Light snow falling between 9^h and 22^h, with a few fair intervals.

April 8.—Barometer falling slowly all day. Temperature rising till 15^h, falling again since, and down to 10°·9 at 23^h. Variable light airs and breezes, and calm till 8^h, N.W. till 15^h, and S. since. Sky fairly clear most of day, but overcast from 13^h to 18^h. Snow fell in the afternoon, rather heavily about 2 p.m. A faint parhelia was seen between 7^h and 8^h, and a lunar halo at 23^h.

April 9.—Barometer falling till 8^h, rising briskly since. Temperature falling till 21^h, when it read 2°·9, rising a little since. Air damp. Light S.E., S., and S.W. winds. Sky generally cloudy. A faint solar halo was seen at 10^h. Light snow was falling at 15^h. A good observation of upper clouds was obtained at 13^h, when cirrus and cirro-k. were seen travelling from N.W. quickly. The lower clouds were coming from the S. and the surface wind was S.S.W.

April 10.—Barometer high and fairly steady most of day. Temperature rising steadily. Air damp. Variable light S. breezes (S.E. to S.W.). Sky fairly clear at times. Air very clear. Solar halo visible at times a.m.

April 11.—Barometer falling till 11^h, rising till 21^h, and falling slightly since. Air dry for a few hours in early morning, damp rest of day. Temperature rising quickly till 13^h, falling a little since. Variable breezes, chiefly N. till noon, and S. since. Overcast, with snow and slight drizzling rain. Mist at times.

April 12.—Barometer falling slowly till 18^h, rather quickly since. Temperature rising till noon and steady since. Air very damp, humidity being over 90 per cent. from 7^h. Light to fresh N. breezes all day. Sky overcast. Snow and sleet fell at times a.m., and mist accompanied by drizzling rain p.m. Slight silver thaw p.m. The prevailing N. wind has blown the ice to S., there being a pretty broad lane of water across the mouth of Scotia Bay, 3 miles off.

April 13.—Barometer steady most of day. Temperature fell from 32°·5 at 1 a.m. to 19°·8 at midnight, the fall being fairly evenly distributed throughout the day. Air damp in morning, but very dry from 10^h to 15^h, humidity being under 60 per cent., and as low as 39 per cent. at 13^h. Variable squally winds, chiefly N.W. till noon, and W. since. Generally overcast, with silver thaw in early morning, and snow with very heavy drift after noon.

April 14.—Barometer rising; temperature steady, but showing a tendency to rise after 20^h. Air rather dry till 17^h, very damp since. Variable light airs and breezes, chiefly S.W. Sky overcast. Snow showers fell at intervals till noon. Solar halo at 13^h.

April 15.—Barometer rising till 8^h, falling since. Temperature steady, about 21°·0 in early morning, rising quickly after noon, and reaching 36°·2 at 22^h. Air damp, but dry puffs at times. Wind S.W. or calm till 8^h, chiefly N.W. and N. since, and rather squally at times. Air

very clear in morning. About half an hour's sunshine was recorded between 10^h and 10.30^h. Slight snow and sleet at times.

April 16.—Barometer falling till 8^h, rising very quickly at times till 22^h, and falling again since. Pressure increased 0·117 inch between 11^h and noon, and again between 11^h and 13^h, while the rise from 10^h to 17^h was 0·507 inch. Temperature high in morning, being 34°·7 at 8^h, but falling since. Air damp on the whole. Strong N.W. winds in early morning, veering to the S.W., and becoming lighter p.m. Sky cloudy, with a little sunshine between 11^h and 13^h. Snow, sleet, and drizzling rain fell at times up to 11^h. Lunar halo at midnight.

April 17.—Barometer falling till 9^h, rising since. Temperature rising till 9^h and falling since. Air damp. Wind chiefly N.W. in morning, but veering to the W. and S.W. since. Calm at times, sky cloudy. Lunar halo in morning and again at night. Air very clear from 4^h to 9^h.

April 18.—Barometer falling slowly. Temperature rose from 16°·7 at 2^h to 30°·0 at 11^h, and then rose slowly to 34°·1 at 22^h. Air very damp, the humidity being at saturation at 15^h. Light to fresh N.W. and N. winds all day. Mist at times. A lunar halo was seen in the early morning, and a fog bow between 7^h and 8^h. Hoar-frost in morning.

April 19.—Barometer rising till 10^h, falling since. Temperature steady and air very damp all day. Variable light breezes, chiefly N.W. Rather cloudy in early morning, but sunny at times between 9^h and 15^h. Air very clear from 10^h to 13^h.

April 20.—Barometer rising quickly after 4^h till 11^h, falling p.m., rather quickly at times. Temperature very high early morning, being 36°·2 at 1^h. Fell from 33°·1 to 13°·7 between 4^h and 5^h, and down to 14°·2 at 16^h, rising in evening. Air very dry at times. Variable winds, being N.W. till 3^h, S.W. or calm till 20^h, and N.E. since. Sky overcast in early morning and at night, with snow showers. Very fine and sunny from 9.30^h to 14^h.

April 21.—Barometer falling throughout. Temperature rising till 20^h, steady since. Air very damp. Light to strong N.W. winds. Sky overcast. No sunshine recorded. Mist at times. Snow, sleet, and drizzling rain at times.

April 22.—Barometer rising slowly till 10^h, falling slowly since. Temperature very high and steady. N.W. and N. moderate to strong breezes. Overcast except at 5^h and 10^h. No sunshine recorded. Showers of rain, sleet, and hail at times. Rather squally.

April 23.—Barometer falling till 7^h, rising till 19^h, and falling again since. Temperature very high and steady till 11^h, falling till 16^h, and rising again in evening. Air damp, except from noon to 19^h. Moderate to strong and squally N.W. and N. winds. Sky cloudy, but fairly clear from noon to 21^h, with sunshine at times. Showers of sleet, rain, and snow at times.

April 24.—Barometer falling quickly till 15^h, rising briskly till 23^h; temperature very high till 10^h, falling slowly till 17^h, when temperature dropped 20°·1 in one hour. Air damp in morning, rather dry after 19^h. Variable N. winds, rather squally till 16^h, veering to S.W. and S. later. Sky overcast till 19^h, clearing since.

Showers of rain and sleet till 16^h, and dry powdery snow with a good deal of drift in the evening.

April 25.—Barometer rising till 19^h, falling since. Temperature low and steady till 17^h, rising since. Air rather damp. S. and S.W. winds till 18^h, N.W. after 20^h. Sky cloudy. A little sunshine between noon and 14^h.

April 26.—Barometer showing no less than three well-marked falls, with corresponding rises. Consequently, all the elements very unsteady. Wind very variable. A little sunshine between noon and 14^h. Snow showers with a good deal of drift at times.

April 27.—Barometer rising till 13^h, falling till 19^h, and rising again since. Temperature falling till 13^h, rising till 16^h, and falling quickly since. Variable light winds, chiefly S.W. and S. Sky clear at times, with sunshine between 10^h and noon.

April 28.—Barometer rising till noon, falling since. Temperature very low in early morning, rising rather quickly after 18^h. Light breezes, chiefly S.W. Air very clear a.m. Snow showers in evening. Sky cloudless a.m., but overcast at night. A little sunshine between 9.30 and 12.30.

April 29.—Barometer rising till 17^h, falling steadily since. Temperature falling irregularly till 17^h, rising since. Strong, rather squally, S. breezes in morning, backing to the W. since. Sky almost cloudless from 10^h to 14^h, four hours' bright sunshine being recorded. Snow showers and drift in early morning, and slight snow again in afternoon.

April 30.—Barometer falling slowly till 15^h, rising slowly since. Temperature steady. Light S. and S.W. breezes. Sky generally cloudy.

May 1.—Barometer rising slowly. Temperature low and steady, being below zero all day. Air dry at times. Light S. and S.E. airs. Sky clear at times, with a good deal of sunshine between 11^h and 15^h.

May 2.—Barometer falling steadily. Temperature rising quickly till noon, and slowly since. N. and N.E. strong breezes. Overcast throughout, with snow at times till 18^h, and drizzling rain producing silver thaw thereafter. Ship's rigging, etc. covered with a transparent sheet of hard ice.

May 3.—Barometer falling till 7^h, rising slowly since. Temperature steady till 9^h, falling since. N. winds, light in force till 8^h, calm at 9^h and 10^h, and light S. and S.E. winds since. Sky generally overcast. Silver thaw in morning and at 14^h. Mist at times, with drizzling rain.

May 4.—Barometer steady till 7^h, rising slowly since. Temperature fairly steady till 14^h, falling a little since. Variable light S. breezes. Overcast throughout. Fog at times, causing crystals to form on all exposed surfaces. Snow at times.

May 5.—Barometer rising slowly. Temperature fairly steady. Variable S. winds, rather strong and squally in early morning, but light in force after 6^h. Sky generally overcast. Snow showers in early morning with drift.

May 6.—Barometer rising steadily. Temperature fairly steady till 9^h, falling rather quickly at times since. Light S. and S.E. breezes; sky generally clouded till 19^h, almost cloudless at every hour since. A little snow fell in early morning. Bright sunshine recorded amounted to over two hours.

May 7.—Barometer rising steadily. Temperature very low in early morning and until 11^h, then rising till 14^h, and falling again till 20^h. Between 20^h and 21^h a rise of 10°. Air calm, or faint airs from the S.E. till 19^h, strong N.W. and N. breezes since. Sky cloudless most of day. The sunshine recorded to-day is very nearly the total possible, the sun not getting above the hills to the N.N.E. till after 11^h.

May 8.—Barometer rising slowly till about noon, falling since. Temperature rising quickly till 18^h, and steady since. Air dry in evening. Light N.W. breezes a.m., but blowing fresh to strong after 17^h. Sky cloudless in early morning, rather clear till 17^h, and cloudy or overcast since. Sunny at times from noon to 15^h. Squally in early morning.

May 9.—Barometer falling, temperature rising slowly till 14^h high, and steady since. Air dry till 3^h, saturated since. Strong N.W. and N. winds approaching gale force till noon. Overcast throughout, with drizzling rain and silver thaw in morning, with snow at times, and mist most of the day.

May 10.—Barometer falling, temperatures very steady between 30° and 31° till 9^h, falling rather quickly since till 19^h, and steady again since. N.W. winds (light) till 8^h, S. or S.E. since, and becoming rather fresh in evening. Sky overcast with mist and fog, slight showers of snow p.m. Slight silver thaw at 10^h.

May 11.—Barometer falling till 7^h, rising since. Temperature falling slowly till noon and rather quickly since. Rather strong S.E. breezes all day. Sky overcast till 20^h, with snow till 17^h and a good deal of drift. Lunar halo at midnight.

May 12.—Barometer rising quickly. Temperature falling till 19^h, steady since. Rather strong S.W. breezes all day. Sky nearly cloudless and air clear, bright sunshine from 11^h to 14^h. Lunar halo in morning and at night, and mock suns seen by Mr BRUCE p.m.

May 13.—Barometer very high, being over 30 inches at 8^h and 9^h. Steady till noon, falling slowly since. Rather strong squally S.W. winds. Almost cloudless throughout, but a great deal of drift snow, which, blowing off hills, produced clouds, not unlike cumulus, on which halos with mock suns and moons were formed.

May 14.—Barometer falling quickly. Temperature rising rapidly till 21^h, falling a little since. S.W. light gusty breezes in morning, backing to N.W., and increasing in force p.m. Overcast most of day, but rather clear at one or two hours in forenoon. Snow showers at times till 20^h, and drizzling rain since.

May 15.—Barometer rising till 13^h, fairly steady since. Temperature falling quickly. Light variable W. and S.W. breezes. Sky overcast till 8^h, clear at times since, but a good deal of fog hanging over the land, but clear bright sunshine on the floe 2 miles to N. Mist in morning. Mock suns were seen at 14^h and a lunar halo at night. The moon rose much distorted by refraction.

May 16.—Barometer rising till 19^h, steady since. Temperature low and showing a well-marked daily range till 21^h, when the reading was - 8°·0; at 22^h the temperature had risen to plus 10°·7, a rise of 18°·7. Very light S.E. airs or calm till 21^h, fresh N. breezes since. Sky practically cloudless till 21^h, nearly overcast since. 4^h 39^m bright sunshine recorded, being close on the total

possible, as the sun does not rise above the hill to the N.W. till 10^h 40^m. A mirage was seen at noon, and at 8 p.m. the moon rose, much distorted by refraction.

May 17.—Barometer falling rather quickly, temperature rising quickly till 11^h and slowly since. N., N.W., or W. strong winds in morning, but falling in force p.m. Sky practically overcast except in early morning. Drizzling rain at times a.m., with silver thaw and snow at night.

May 18.—Barometer rising till 14^h, falling rather quickly since. Temperature falling quickly till 14^h, rising quickly since. Wind chiefly S., S.W., or S. till 16^h, backing to the N.W. and N. since. Sky clear from 11 to 15^h, overcast rest of day. Bright sunshine from 11.15^h to 14.30^h. Showers of snow in morning and at night. A mock sun was seen at 14^h.

May 19.—Overcast most of day, with snow and rain early morning, and rain again at 18^h. Barometer rising till 9^h, fairly steady till 14^h, and falling since. Temperature high and steady, being above 32° most of day. Variable N. winds, very strong and squally in early morning, the barometer pumping very heavily at times till 14^h. Wind light from 8^h to 14^h, but increasing in strength towards evening.

May 20.—Barometer falling till 7^h, rising till noon, and falling again slightly since. N.W. and N. strong winds all day. Sky generally overcast, but brief clear period from 10^h to 11^h and 19^h to 21^h. Mist in morning. Snow and hail falling at midnight.

May 21.—Barometer rising till 3^h, steady till 11^h, and falling since. Temperature very high till 6^h, and but little below 32° at any time during day. Air dry in early morning. Saturated or nearly so p.m. Rather strong squally N. and N.W. winds. Sky overcast most of day with showers of snow and hail. Rain at 19^h and mist at 21^h.

May 22.—Barometer rising quickly in early morning and slowly at times after 7^h, falling after 19^h. Temperature very high from 7^h to 18^h. Air dry at times. N.W. strong squally winds most of day. Sky fairly clear from 5^h to 18^h, with about two and a half hours' bright sunshine. Showers of snow and rain till 4^h, and snow again at midnight.

May 23.—Barometer falling till 18^h, rising later. Temperature very steady and air nearly saturated. Variable N.W. or N. moderate to light breezes, calm at and after 19^h. Sky overcast except at 7^h and 24^h. Mist in morning, drizzling rain producing silver thaw from 13^h to 16^h, and heavy snow later.

May 24.—Barometer rising till 4^h, falling till 14^h, and rising again since. Temperature very steady and air rather dry after 18^h. N.W. or N. winds of moderate strength most of day. Overcast generally till 18^h, clearing at times since. Mist at times a.m., and drizzling rain producing silver thaw at times. Snow was falling at 10^h.

May 25.—Barometer rising till 21^h, but falling slightly since. Temperature showing a large range, falling from 30° 0 at 1^h to -0° 6 at 16^h, rising since. N.W. moderate winds till 3^h, veering to W. and S. later, but backing again to N. at 21^h. Sky overcast generally till 14^h, cloudless from 18^h to 21^h. Showers of snow from 5^h to 13^h.

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May 26.—Barometer falling till 5^h, rising briskly till 18^h and slowly since. Temperature rising till 7^h, falling quickly till 16^h and slowly since. N.E. and N.W. light breezes till 7^h. S.E. or S. till 23^h, but N. at midnight. Sky overcast generally till 11^h, but cloudless after 16^h. A little sunshine from 1^h to 2^h. Snow fell till noon, and mock suns were seen during the afternoon.

May 27.—Barometer falling till 22^h, steady since. Temperature rose 15° 1 between midnight 26^h and 1^h, and continued rising till 16^h, steady or falling a little since. Air dry at times. Strong N. winds most of day. Sky generally overcast, with a good deal of snow, accompanied with drift.

May 28.—Barometer rising till 10^h, falling since. Temperature fairly steady throughout, but showing a slight fall from 11^h to 15^h. N. and N.W. winds, light in force a.m., but increasing in strength and becoming very squally after 17^h. Sky fairly clear till 13^h, overcast with snow and a good deal of drift since 19^h. Two meteors were seen between 2^h and 3^h in N. near zenith, travelling from N. to S.; soft hail fell at 9^h.

May 29.—Barometer rising briskly till 19^h, falling again since. Temperature falling generally till 19^h, rising since. Variable S. and S.W. winds (light) till 17^h, N. and N.W. since 20^h. Sky generally overcast. Snow fell at times in forenoon, and drizzling rain producing silver thaw p.m.

May 30.—Barometer falling till 4^h, rising briskly till 14^h, then very high and steady till 21^h, falling since. Temperature high in early morning, falling from 5^h to 12^h, and rising on the whole since. Air rather dry at times. Variable light breezes, chiefly N., but increasing in force after 16^h. Sky fairly clear from 11^h to 18^h. A very fine sunset and beautiful tints in the sky till 16^h 30^m. Earth shadow seen.

May 31.—Barometer falling steadily. Temperature rising slowly till 10^h and very quickly since, reaching the phenomenally high reading at 46° 8 at 13^h 15^m; sharp drop of about 7° just before 14^h, falling thereafter till 16^h, and almost steady since. Strong N.W. and N. winds all day. Sky overcast with heavy rain in early morning with silver thaw, and drizzling rain at times p.m.

June 1.—Barometer unsteady, showing a fall till 6^h, then rising till 14^h, and falling again since. Temperature very high, rising to 42° 1 at 13^h 15^m, but falling 8° 1 between that time and 13^h 30^m. Strong squally N. and N.W. winds all day. Sky generally overcast, with drizzling rain at times, and heavy rain after 20^h. Thin mist was observed at 17^h, slight silver thaw at 20^h, and hail at midnight.

June 2.—Barometer falling till 6^h, rising slowly till 11^h, and falling since. Temperature rising till 9^h, falling since. Air very dry at times. Strong N. and N.W. winds in morning, but falling in strength since 11^h. Sky overcast generally except from 10^h to 13^h. Mist in morning, and snow from 17^h to 20^h.

June 3.—Barometer falling till 9^h, rising till 19^h, and falling a little since. Barometer rising very quickly from 9^h till noon, as much as 0.146 inch between 10^h and 11^h. Temperature falling generally. Air very dry at times. Light to moderate N.W. winds. Sky generally overcast from 6^h to 15^h and after 22^h. Snow fell in

forenoon. Severe squall, with heavy snow and very heavy drift from 10.20 to 10.50 a.m.

June 4.—Barometer rising briskly. Temperature falling till 9^h, rising till 14^h, and falling decidedly since. Light to moderate breezes, chiefly S. Sky fairly clear till 17^h, then overcast. Light snow fell between 10^h and 15^h.

June 5.—Barometer rising till 15^h, falling since. Temperature falling till 9^h, rising since, rather quickly since 17^h. Light S. and S.W. airs till 16^h, calm at 17^h, and N.W. since, and blowing rather fresh at midnight. Sky generally clear of cloud. Lunar halo at night.

June 6.—Barometer falling. Temperature rising slowly till 18^h, steady since. Variable N.W. light to moderate breezes till 18^h, almost calm since. Sky overcast throughout, with snow and hail in early morning and continuous snow since 11^h.

June 7.—Barometer rising briskly after 2^h, temperature falling quickly most of day. Air damp; strong S.E. wind sprang up at 3^h and lasted till 7^h, light or calm rest of day. Sky overcast till 5^h, nearly cloudless rest of day. Snow fell in early morning, and lunar halos, coronas, and mock moons were seen in evening. The sunshine recorder did not show any trace to-day, as the heat rays were cut off by "Barber" to the N.

June 8.—Barometer high and steady till 10^h, falling since. Temperature rising throughout. Calm in morning, but wind backing to N.W. and N., and increasing in force p.m. Sky generally cloudy. Snow showers at times.

June 9.—Barometer falling till 15^h, rising since. Temperature high and fairly steady till 14^h, falling quickly since. N. winds till 10^h, calm till 13^h, and then S. or S.W. Light to moderate breezes. Sky generally overcast, with showers of snow.

June 10.—Temperature falling till 6^h, when it was down to $-16^{\circ}.9$, rising later quickly at times. Rather fresh S. and S.W. winds till 4^h. N. or N.W. after 10^h. Barometer rising till 9^h, steady rest of day. Sky almost cloudless in early morning, but generally overcast rest of day, with snow after 18^h.

June 11.—Barometer falling slowly on the whole. Temperature steady and air rather dry at times. Light N.W. (N. to W.) breezes or calm. Sky clear at times. A little snow fell in morning, and drizzling rain causing slight silver thaw in afternoon. A lunar halo was seen at night.

June 12.—Barometer falling slowly. Temperature rising slowly till 11^h, high and very steady since. Moderate to strong N.W. and N. winds most of day. Sky generally overcast. A lunar halo was seen at 1^h. Rain and mist accompanied by silver thaw from 6 to 8^h, and snow showers p.m. and at night.

June 13.—Barometer falling till 4^h, rising since. Temperature high and steady till 6^h, when a rapid fall took place till 10^h, falling slowly till 13^h, and rising again since. Sky generally overcast, but rather clear with a little sunshine about 13^h. Snow fell in morning.

June 14.—Barometer rising till 18^h, falling slightly since. Temperature rising till 9^h, falling quickly till 17^h, and rising again since. N.W. strong winds in morning, S. light breezes p.m., and N.W. or N. again at night. Sky cloudy except from 13^h to 18^h, when it was cloudless. Snow fell in morning and again at night.

June 15.—Barometer falling slowly; temperature fairly steady, but showing a general rise till 14^h and a fall since. Strong squally to light N. and W. winds. Sky cloudless after 16^h except for a little cirro-cum. at 23^h and midnight. Slight snow fell in early morning.

June 16.—Barometer falling till 7^h, rising since. Temperature rising till 8^h, after which a rapid fall took place till 17^h, rising again since. Moderate N.W. winds till 7^h, variable S. light winds till 19^h, chiefly N.W. since. A lunar halo was seen in the morning. Snow fell at times.

June 17.—Barometer rising till 8^h, falling rather quickly till 21^h, and rising again since. Temperature low and steady till 10^h, rising quickly till 21^h, and falling very quickly since. Light S. and S.W. breezes till 7^h, backing to N. and increasing in force till 21^h, then light from the S.E. Sky generally overcast, with a good deal of snow and a sharp shower of hail at 21^h 33^m, when the barometer rose, the wind veered, and the temperature fell quickly.

June 18.—Barometer rising till 10^h, falling on the whole till 19^h, and unsteady since. Temperature falling till 14^h, when it read $-24^{\circ}.9$, rising till 20^h, and falling again since. Light to fresh S. and S.E. breezes. Sky cloudless most of day.

June 19.—Barometer rising slowly. Temperature very low, being down to $-26^{\circ}.0$ at 7^h, and below $-20^{\circ}.0$ till noon, rising slowly till 19^h, and falling again since. Rather strong squally S.W. and S. winds all day. Sky cloudless except from 14^h to 19^h, when the sky appeared to be covered with a species of cloud pallium of the cumulus type, but which may have been largely composed of fine snow. A lunar halo was seen in the morning.

June 20.—Barometer rather unsteady, but showing very little range. Temperature rising till 7^h, falling till 20^h, and about steady since. Strong squally S. and S.W. winds all day. Sky generally cloudless, but owing to snowdrift the view was restricted, and for the same reason no sunshine was recorded.

June 21.—Barometer rising on the whole. Temperature low, but showing a gradual rise from $-20^{\circ}.9$ to $-6^{\circ}.0$. Strong S.W. winds all day, with sharp squalls up to force 4. Sky practically cloudless, except for a little cirro-stratus from 8^h to 11^h.

June 22.—Barometer falling slightly till 16^h, rising slowly since. Temperature rising on the whole till 19^h, falling since. Variable light breezes, chiefly S.W., except from 11^h to 20^h, when the general direction was N. Air dry most of day. Cloudless in early morning, but overcast from 13^h to 23^h, with occasional snow showers.

June 23.—Barometer rising on the whole till 13^h, falling a little since. Temperature falling till 6^h, rising since. Calm till 6^h, rather strong N.W. winds rest of day. Sky cloudless till 9^h, cloudy till 15^h, and mostly overcast since. In the early morning a species of ice crystals was forming, and the same in the afternoon and evening. There was a sort of ground mist in the early morning although the sky was cloudless, but it was of such tenuity that the term "mist" could not properly be applied to it.

June 24.—Barometer falling rather quickly after 10^h. Temperature high and very steady. Air rather dry. Strong N. (N.W. to N.E.) winds all day. Sky generally

overcast. Silver thaw most of day, with drizzling rain and snow showers.

June 25.—Barometer falling slowly. Temperature falling till 10^h, very steady since. Moderate breezes, chiefly S.E. Sky overcast throughout, with almost continuous snow showers. Drizzling rain and silver thaw at 20^h. Atmosphere very thick, visibility seldom exceeding one mile.

June 26.—Barometer rising slowly on the whole. Temperature very steady. Variable light breezes, chiefly S.W. and S.E. Sky overcast throughout, with snow in early morning and continuous showers after 9^h. Visibility during day rarely exceeded one mile.

June 27.—Barometer rising very slowly till 17^h, falling slowly since. Temperature falling slowly till 21^h, rising slightly since. Air saturated. Light to moderate variable S. breezes. Sky generally cloudy, with passing snow showers, but cloudless from 5^h to 7^h. Visibility during day has rarely exceeded one mile.

June 28.—Barometer falling slowly till 6^h, rising slowly since. Temperature falling slowly, but showing a tendency to rise after 14^h. Air very calm or light from the S. Sky generally overcast, with slight snow showers at times.

N.B.—The anemometer being out of order most of the day, the values have been estimated.

June 29.—Barometer rising till 20^h, falling since. Temperature rising till 13^h, fairly steady since. Strong squally N.W. winds most of day. Sky generally overcast. Showers of snow and drizzling rain at times, accompanied by a slight silver thaw. Fog in morning. A faint lunar corona was seen at 17^h.

June 30.—Barometer falling quickly till 16^h, rising since. Temperature rising till 15^h, falling slightly since. Rather strong squally N.W. winds all day. Overcast throughout, with snow and sleet showers, and rain at 16^h and 21^h.

July 1.—Barometer falling till 13^h, rising since. Temperature high and rising till 14^h, falling since. Strong W. and N.W. winds, rising to the force of a moderate gale from 11^h to 13^h. Very squally in evening. Sky overcast from 6^h to 14^h, with snow showers, fairly clear rest of day. Mist or fog at times a.m.

July 2.—Barometer falling rather quickly throughout. Temperature fell till 8^h and rose till 19^h, rather steady since. Calm or light from the S. till 8^h, backing to the N.W., and blowing a moderate gale in evening. Sky cloudless from 3^h to 9^h, overcast at night. A prismatic bow like a rainbow was seen at 14^h, and a faint lunar halo at 19^h and 20^h.

July 3.—Barometer low and falling till 12^h 20^m, when the minimum of 28.221 inches was recorded. Temperature rising till 5^h, fairly steady till noon, and showing a very rapid fall during the rest of the day. The fall between noon and 13^h amounted to 15°·9, and the day's range was 40°·2. Wind blowing a heavy gale from the N.W. in the early morning, but veering to the south p.m. and becoming very squally. Sky generally cloudy and overcast. A little snow fell at 5^h and 13^h.

July 4.—Barometer rising till 10^h, steady since. Temperature rising slowly till 18^h, falling a little since. Very squally variable S. winds all day. Sky generally overcast except from 3^h to 5^h. A little snow fell at times, and a faint lunar corona was seen at 21^h.

July 5.—Barometer unsteady till 15^h, rising rather decidedly since. Temperature low and steady. Strong squally variable S. winds (S.E. to S.W.) all day. Sky generally overcast except from 3^h to 7^h, when it was cloudless. Slight snow fell at times.

July 6.—Temperature falling till 2^h, rising till 8^h, falling again till 14^h, and rising quickly after 17^h. Barometer rising till 16^h, falling since. Strong squally S.W. winds till 6^h, falling lighter till 17^h, and blowing from the N.W. since, strongly from 19^h to 22^h. Sky generally overcast, but somewhat clear from 9^h to 15^h, snow showers increasing.

July 7.—Barometer falling slowly till 15^h, rising slowly on the whole since. Temperature rising till 13^h, very steady since. Air dry all day. Light to fresh W. breezes. Sky generally overcast, with hail at 19^h, and snow showers later.

July 8.—Barometer falling till 6^h, rising since. Temperature high and very steady till 8^h, falling since (very quickly after 11^h). Large daily range of 39°·9. Wind fresh from N.W. and W. till 8^h, veering to the S.W. at 9^h, and continuing in that quarter rest of day and falling at night. Sky overcast till noon, almost cloudless since. Snow showers fell at times up to noon.

July 9.—Barometer very steady till 14^h, falling since. Temperature steady till 17^h, rising since. Wind light from the S. till 11^h, dead calm since till 17^h, N. and increasing to a strong breeze since. Sky overcast except at 22^h, with passing snow showers. A lunar halo was seen at 1^h and 22^h, and slight silver thaw was observed in early morning.

July 10.—Barometer falling till 11^h, rising since. Temperature rising till 11^h, falling slowly since. N.W. gale from 1^h to 5^h, moderating later, and veering to the S.W. p.m., but very variable and somewhat squally. Sky generally overcast, with snow showers. Slight silver thaw at 9^h, and a lunar corona (rather faint) at 21^h.

July 11.—Barometer rising till 9^h, falling since. Temperature falling till 9^h, rising rest of day. S. and S.W. rather gusty wind till 5^h, falling calm at 9^h, and backing to the N.W. p.m., and increasing somewhat in force. Sky generally overcast, with showers of snow. Lunar corona at 1^h and 2^h.

July 12.—Barometer falling till 7^h, rising till 19^h, and falling again since, very quickly at midnight. Temperature high and steady, and air generally saturated. N. and N.W. winds, rather strong and squally till 9^h and after 20^h, almost calm between. Sky overcast, with snow and rain showers. Mist at times with silver thaw.

July 13.—Barometer fell quickly till 14^h, rising quickly since. Temperature high and steady till 14^h, falling quickly till 19^h, and rather unsteady since. N. (N.E. to N.W.) strong winds and gales till 14^h, veering to S.W. and becoming very squally till 20^h, and showing a tendency to back since. Very heavy squalls after 21^h. Showers of snow with an overcast sky most of day. Drizzling or light rain with slight silver thaw at times a.m.

July 14.—Barometer falling quickly till 6^h, rising after 7^h. Temperature rising quickly till 2^h, falling till noon, and rising again since. Air dry at times. N.W. gale in early morning, squally breezes from same direction rest of day. Sky cloudy. Fog at 4^h, and showers of snow with heavy drift at times.

July 15.—Barometer rising till noon, falling since. Temperature rising till 10^h, steady since. Air dry at times. Calm till 6^h, wind backing to N.W., and blowing a moderate gale at times after 16^h. Sky generally overcast, with mist at 6^h and 7^h. Snow at times. Slight silver thaw and drizzling rain at 6^h and 21^h. A decided water sky has been seen both to the N.W. and S.E., showing that there is much open water round the island.

July 16.—Barometer falling till 11^h, rising since. Temperature high and steady till noon, falling quickly since. Air dry at times. N.W. winds, rising at times to the strength of a moderate gale in early morning, veering to the S.W. and S. since 15^h, and becoming squally. Sky overcast generally till 16^h, with snow at times, clearing since. Silver thaw at 6^h.

July 17.—Barometer rising briskly till 16^h, falling a little since. Temperature falling till 10^h, rising slowly till 16^h, and very quickly since. Strong S.W. winds in forenoon, but N.W. after 16^h. Sky cloudless from 8^h to 16^h, cloudy or overcast rest of day. Nearly three hours' bright sunshine recorded. A little snow and drizzling rain fell between 19^h and 22^h, with slight silver thaw. Uruguay Cove and Jessie Bay have been clear of ice all day.

July 18.—Barometer high and rising slowly. Temperature very high all day and steady after 5^h. Air dry at times. Strong N.W. breeze all day. Sky generally overcast. A little snow, sleet, and drizzling rain fell between 10^h and 14^h.

July 19.—Barometer very high and steady till 19^h, falling slowly since. Temperature high and steady. Air damp. Strong steady N.W. breeze all day, approaching the strength of a moderate gale at times. Sky generally overcast, with snow at 17^h and drizzling rain at 22^h. Fog at 4^h and silver thaw at and after 22^h.

July 20.—Barometer falling steadily, temperature high and very steady. Overcast throughout, with showers of snow, sleet, and rain. Copious deposition of silver thaw all day, ice forming to thickness of over an inch and a half on lower rigging, and fully twice that thickness higher up. Strong steady N.W. winds, approaching the force of a gale at times. Hail at 10^h.

July 21.—Barometer falling till 4^h, rising till 18^h, and falling since. Temperature falling slowly till 16^h, rising since. Rather strong N.W. winds, blowing a gale at 4^h. Sky overcast from 1^h to 7^h, and 20^h to 24^h. Clear and cloudless at times between. Snow at midnight, fog at 4^h.

July 22.—Barometer rising till 17^h, falling since, briskly after 22^h. Temperature high and steady, and air generally dry. Strong N.W. breezes. Sky generally clear between 6^h and 15^h, overcast rest of day, with snow at 1^h and 24^h and hail at 5^h.

July 23.—Barometer falling till 10^h, rising since. Temperature very high and steady till 18^h, falling slightly since. Air damp a.m., but very dry after 16^h. Strong squally W. and N.W. winds most of day. Sky overcast till 13^h, with mist and drizzling rain from 4^h to 9^h. Sleet at noon.

July 24.—Barometer falling till noon, rising since. Temperature high and steady till about 17^h, falling till 21^h, and rising again since. Air very dry during day, especially about 5^h and 6^h. Strong, generally squally, W. and N.W. winds most of day. Sky cloudy from

6^h to 17^h, mostly cloudless rest of day. Snow at times from 9^h to 13^h, and hail (*graupe*) between 14^h and 15^h.

July 25.—Barometer falling after 3^h, quickly after 17^h. Temperature high and very steady. Air dry till 15^h. Rather strong squally N.W. (W. to N.) winds most of day. Sky generally overcast after 6^h. Cloudless from 2^h to 5^h, snow and drizzling rain accompanied by silver thaw after 15^h.

July 26.—Barometer falling slowly. Temperature high in early morning, but showing a slight fall after 6^h. Air dry at times. Variable breezes, light in force generally, but rather strong from N.W. till 3^h. Sky generally cloudy till 17^h, cloudless at times since. Slight snow showers at 1^h, 13^h, and 23^h.

July 27.—Barometer falling quickly till 10^h, rising till 13^h, falling again till 21^h, and rising since. Temperature high and steady till 10^h, falling quickly till 17^h, and then showing a slight rise and another fall after 21^h. Strong N.W. winds (reaching the force of a gale at 11^h) till 10^h, veering to S. since, and falling light. Sky generally overcast till 14^h, cloudless till 18^h, and cloudy again since. Showers of snow fell at intervals during day, with heavy drift at times.

July 28.—Barometer low and steady, but showing a gradual rise from 14^h. Temperature rather unsteady, but falling on the whole. Air dry at times. Very light variable airs and calms all day, direction chiefly S. Sky more clear than cloudy, and cloudless at times. A little snow fell at 20^h.

July 29.—Barometer rising slowly. Temperature low and steady. Variable light to moderate breezes, chiefly S. Sky generally cloudy, but clear at times. Snow showers at intervals till noon.

July 30.—Barometer falling till 7^h, rising since. Temperature rising slowly throughout. Air damp. Strong squally S.E. and S. winds all day. Sky overcast, with fog at 10^h and mist at 4^h. Heavy snow at times, with considerable drift.

July 31.—Barometer rising steadily. Temperature falling on the whole. Moderate S. and S.W. winds, rather squally at times. Sky overcast most of day, with slight snow showers. Lunar corona at 19^h, and fog at 4^h and 5^h.

Aug. 1.—Barometer rising. Temperature low and falling till 9^h, rising irregularly since, quickly between 20^h and 21^h. Air damp. Light S. airs or calm till 20^h, freshening from the N.W. since. Sky overcast till 6^h, cloudless or almost so till 14^h, overcast till 20^h, and clearing again since. Thin fog at 4^h, 5^h, and 6^h, and snow at 4^h. Lunar corona at 21^h.

Aug. 2.—Barometer very high and steady till 20^h, falling since. Temperature rose quickly in early morning, remained steady till 17^h, and then fell to 4°·8 at 18^h, rising since. Air very dry at times from 8^h to 16^h. Light W. or N.W. breezes most of day, backing to N. at night. Sky cloudless from 6^h to 18^h. Snow fell at 3^h, fog or mist from 4^h to 6^h, and at 24^h. A lunar corona was seen at 21^h and 22^h. Air very clear most of day.

Aug. 3.—Barometer falling quickly till 14^h, rising a little since, but showing a tendency to fall after 20^h. Temperature high till 13^h, falling since. Light to moderate variable breezes, chiefly N. Sky generally overcast, with snow, rain, and a good deal of silver thaw. Lunar corona (faint) at 20^h and 23^h. Mist at 7^h.

Aug. 4.—Barometer rising till 16^h, falling since. Temperature falling till 10^h, rising since. Strong squally N.W. and W. winds from 1 to 8^h and 16^h to 24^h. Light breezes, chiefly S.W., between. Sky generally clear from 4^h to 14^h, overcast rest of day with snow showers in evening. Fine and continuous sunshine between 11^h and 13^h.

Aug. 5.—Barometer falling slowly. Temperature very high most of day, and steady on the whole after 10^h, after which the air has been very dry. Strong squally W. and N.W. winds, reaching the force of a gale at times, with very heavy squalls. Snow showers in forenoon. The colours in the sky after sunset presented an extremely ugly, wild, threatening appearance. Lenticular cirro-stratus forming during afternoon.

Aug. 6.—Barometer falling till 16^h, steady till 20^h, rising since. Temperature very high in early morning, rather unsteady during day, and falling after 20^h. Strong squally W. and N.W. winds till 21^h, reaching the force of a gale in early morning, veering to the S.W. to-night. Sky overcast, with snow, sleet, and rain at times, and silver thaw at 22^h. Mist at 9 and 17^h.

Aug. 7.—Barometer rising briskly throughout. Temperature falling steadily. Squally S.W. winds all day. Sky overcast from 7^h to 17^h, generally clear rest of day. Snow fell at 1^h and 13^h, and a faint lunar corona was seen from 22^h to midnight.

Aug. 8.—Barometer rising steadily till 20^h, steady since. Temperature low, and showing a well-marked daily range, rising quickly after 23^h. Air dry at times. Light to moderate and rather squally S. breezes till 10^h, calm or very light variable airs, chiefly E. till 23^h, light N. breeze at midnight. Sky generally clear, with almost continuous bright sunshine till 16^h 20^m. Overcast at 22^h, 23^h, and 24^h.

Aug. 9.—Barometer falling slowly. Temperature rising slowly throughout. Air damp. Moderate to fresh N. and N.E. breezes. Overcast throughout, with showers of snow after 7^h. Mist at 10^h and 11^h.

Aug. 10.—Barometer falling slowly. Temperature fairly high and very steady. Moderate to light N. and N.E. breezes. Sky overcast throughout except at 4^h. Continuous showers of snow, sleet, and rain have fallen. Silver thaw from noon to 18^h.

Aug. 11.—Barometer steady. Temperature very steady and air damp. Light to fresh N. and N.E. breezes. Sky overcast except at 18^h, with showers of snow and rain, and a copious deposit of ice from silver thaw on all exposed objects to the thickness of about half an inch.

Aug. 12.—Barometer unsteady till 9^h, rising since. Temperature steady till 5^h, falling till 15^h, and rising again since. Light to moderate breezes, chiefly N.W. Sky overcast till 6^h, with drizzling rain and snow. Generally clear rest of day. Mist at 5^h and 6^h, with silver thaw at times till 6^h.

Aug. 13.—Barometer rising. Temperature falling till 5^h, rather unsteady since, but showing a general rise. Air dry at times. Light to moderate breezes, chiefly W. to N.W. Sky clear at times. Lunar halo, with one mock moon at 5^h.

Aug. 14.—Barometer rising till 13^h, falling since 18^h. Temperature very high a.m., but showing a slight fall p.m.

Strong squally N.W. winds, reaching the force of a gale at times after 15^h. Sky generally overcast, with silver thaw at 14^h, 15^h, and 16^h.

Aug. 15.—Barometer rather unsteady, but showing a small range; temperature high and very steady. Air damp. Strong N.W. gale, with occasional lulls till 16^h, wind moderating later. Sky overcast throughout, with very slight drizzling rain and silver thaw from 11^h to 21^h. Ice forming to the thickness of over half an inch on all exposed objects.

Aug. 16.—Barometer very steady, but showing a tendency to fall after 20^h. Temperature steady and air moderately dry. Strong N.W. and N. winds all day, reaching the force of a gale at times till 8^h. Sky overcast throughout. A distinct swell was coming into Scotia Bay this evening, and much ice drifting out this (north) side of Ailsa Craig.

Aug. 17.—Barometer falling. Temperature high and fairly steady. Moderate to strong N. and N.W. winds all day. Sky generally overcast, with slight snow at times and silver thaw. Rainbow seen at 14^h 30^m, when very fine drizzle was falling.

Aug. 18.—Barometer falling till 8^h, rising unsteadily on the whole since, and pumping very heavily during the squalls. Temperature falling generally. Moderate to strong and very squally W. winds most of day, becoming less squally after 17^h. Sky generally overcast, with showers of snow and a good deal of drift.

Aug. 19.—Barometer rising steadily. Temperature falling till 17^h, rather steady since. Squally breezes, chiefly S. and S.E. Sky overcast, with heavy snow in large flakes and a good deal of drift.

Aug. 20.—Barometer rising steadily. Temperature low and falling till 7^h, rising till 15^h, and falling again since. S. winds, principally S.E. all day, rather squally at times. Sky overcast, with snow showers.

Aug. 21.—Barometer rising till 13^h, steady till 19^h, and falling since. Temperature falling till 8^h, fairly steady till 18^h, and rising since. Light S. breezes in morning, generally calm from 9^h to 17^h, rather fresh N.W. breeze since. Sky generally cloudless after 3^h, with continuous bright sunshine. Snow fell at 1^h and 2^h, and at 9^h and 17^h snow stars were falling, although the sky above was clear. Well-marked "Barber" in Uruguay Cove.

Aug. 22.—Barometer falling steadily. Temperature rising slowly and air damp. Strong, rather squally N.W. and N. winds. Overcast throughout except at 1^h. Mist at 4^h and 5^h. Slight silver thaw at 9^h, and snow at times after 21^h.

Aug. 23.—Barometer falling steadily and rather quickly. Temperature very steady and air damp. Rather strong squally N. (N.E. to N.W.) winds most of day. Sky overcast, with snow, sleet, rain, and hail showers, and a good deal of drift. Silver thaw at noon, 13^h and 14^h.

Aug. 24.—Barometer falling till noon, rising since. Temperature high and steady till 13^h, falling rather quickly since. W. and N.W. winds (light) till noon, S. since, and rather squally at times. Sky overcast, with mist or fog at times till 16^h. Drizzling rain and silver thaw till 16^h, snow at times since.

Aug. 25.—Barometer rising slowly, temperature fairly

steady. Rather squally S.W. and S. winds. Showers of snow at times, with a good deal of drift.

Aug. 26.—Barometer rising slowly till 11^h, falling slowly since. Temperature unsteady, but showing a well-marked daily range. Light S.W. breezes till noon, practically calm since. Fine, bright, and sunny, with little cloud after 6^h. Hoar-frost at 21^h.

Aug. 27.—Barometer falling slowly till 8^h, rising since. Temperature rising slowly till 19^h, steady since. Air damp. Variable S. airs or calm till 18^h, N.N.E. since. Slight snow at times. Hoar-frost at 4^h and 5^h, and a lunar corona at 19^h.

Aug. 28.—Barometer rising slowly. Temperature very steady, the daily range being only 1°-1. Light to moderate N. and N.N.E. breezes. Sky generally overcast, with showers of snow till 19^h, and slight drizzling rain with silver thaw since.

Aug. 29.—Barometer steady till 14^h, falling on the whole since. Temperature steady and air damp. Light to moderate N. breezes. Sky generally overcast, with snow showers. Lunar halo at 19^h and 20^h.

Aug. 30.—Barometer very steady; temperature falling slowly till 14^h, rather quickly till 23^h, and showing a slight rise at midnight. Air damp. Light to moderate N. breezes till 8^h, variable or calm till 10^h, and generally S.E. since and light in force. Sky generally overcast. Showers of snow at times in early morning and at afternoon.

Aug. 31.—Barometer rising slowly. Temperature fell quickly till 6^h, fairly steady since after a slight rise p.m. Light to moderate S.E. breezes. Sky generally overcast. Snow at 2^h, 3^h, and 4^h.

Sept. 1.—Barometer very steady, temperature low and falling. Light S.E. and S. breezes till 16^h, calm or nearly so since. Sky overcast till 16^h, cloudless at and after 18^h. Air very clear. Faint lunar halo at 20^h. At and after 22^h a belt of white cumulus fog was seen to the N.W. Strong ice-blink to N.W. and S.E., and a well-marked "Barber" on some open water to the N. and W. of Saddle Island.

Sept. 2.—Barometer very steady till 21^h, falling since rather quickly between 23^h and midnight. Temperature very low and somewhat unsteady, but showing a well-marked daily range. Light S.E. airs and breezes all day, calm at times. Sky absolutely cloudless throughout, the only appearance of cloud being to the N.W., where a well-marked "Barber" prevailed all day. Mock sun seen at 7^h 30^m and a faint lunar halo at 20^h. The atmosphere was very clear all day except for a little haze at 7^h.

Sept. 3.—Barometer falling rather quickly till 13^h, rising briskly since. Temperature rising quickly till 13^h, falling quickly till 19^h, rising slowly since. Temperature rose 27°-6 between 4^h and 13^h, and fell 28°-0 in six hours following. E. and S.E. light breezes till 5^h, backing to W. by noon, and veering to S. p.m., and becoming squally. Sky cloudless till 6^h, cloudy at times rest of day. A solar halo and faint mock sun seen at 7^h. Snow at 13^h.

Sept. 4.—Barometer rising till 18^h, falling since. Temperature low and somewhat unsteady till noon, rising after 7^h. Rather squally S.W. and S.S.W. breezes till 15^h, falling lighter since, and backing to the N.W. Sky generally cloudless or nearly so till 19^h, cloudy or overcast since. A lunar corona was seen at 2^h and 3^h.

Sept. 5.—Barometer rising slowly and irregularly till 20^h, falling slightly since; temperature rising quickly till 8^h, slowly till 18^h, steady since. Variable and rather squally light to moderate breezes, chiefly W. Sky generally cloudy. Snow at 10^h.

Sept. 6.—Barometer falling till 16^h, rising since. Temperature high and unsteady. Air dry at times. Rather strong squally W. and N.W. winds till 18^h, variable but chiefly S. breezes since, with squalls. Sky generally overcast, with snow showers from 9^h to 18^h. A faint lunar corona was seen at 1^h and 23^h. Slight silver thaw at 15^h and 16^h.

Sept. 7.—Barometer rising briskly; temperature falling slowly till 9^h and quickly since. Strong squally breezes all day, chiefly S.W. Sky generally cloudy till 14^h, almost cloudless since. Slight snow at 8^h.

Note.—On the moraine to E. of ship during the afternoon a steady wind from S.W. by W., force 6, was experienced, while at the ship both the direction and strength were very variable, the wind being very squally throughout.

Sept. 8.—Barometer high and steady; temperature steady and showing a well-marked daily range. Air dry. Squally S.W. breezes till 15^h, calm or variable airs since. Sky almost cloudless. Hoar-frost at 3^h. A faint lunar corona was seen at 22^h and 23^h.

Sept. 9.—Barometer falling, rather quickly at times. Temperature low and unsteady till 5^h, rose 10°-0 in the hour following, and slowly during the rest of the day. Air dry a.m. Light N.W. airs or calm till 5^h, N.W. since, and increasing in force and blowing a moderate gale at 23^h. Sky generally clear till 7^h, overcast after except at 8^h and 12^h.

Sept. 10.—Barometer falling till 17^h, rather unsteady since. Temperature rising till 17^h, very unsteady since, and showing rapid variations in short periods. Air dry at times. Strong squally N.W. and W.N.W. winds except from noon to 19^h, when a light to moderate steady breeze was experienced. Sky generally overcast, with showers of snow, sleet, and rain, and mist at times till 14^h.

Sept. 11.—Barometer rising slowly till 10^h, falling since slowly. Temperature showing a rapid rise till 8^h, fell 8°-1 in hour following, and steady since. Föhn wind and dry air from 5^h to 8^h. Rather strong N.W. (W. to N.) winds. Sky almost cloudless from 7^h to 10^h, cloudy or overcast rest of day, with snow and drizzling rain at times till 17^h. Mist and slight silver thaw at times.

Sept. 12.—Barometer falling slowly till 16^h, steady since. Temperature steady and air damp. Rather strong N.W. breeze till 4^h, falling light after 5^h, and calm or variable light airs (chiefly S.) rest of day. Sky overcast after 2^h, with mist at times a.m., and showers of rain, sleet, and snow p.m. Slight silver thaw at 22^h and 23^h.

Sept. 13.—Barometer very steady; temperature steady till 11^h, falling slowly since. Air damp. Very light variable airs or calm. Sky overcast, with drizzling rain and silver thaw at 1^h, 2^h, 22^h, and 24^h. Clouds low most of day.

Sept. 14.—Barometer rising slowly. Temperature rising slowly till 8^h, falling since. Light, rather gusty, S. and S.W. breezes. Sky overcast, except from 21^h to 23^h and at 16^h. Thin mist at 11^h. Snow fell at 1^h, 5^h, and 6^h. Drizzling rain with silver thaw in early morning.

Sept. 15.—Barometer showing a very small range, but rather unsteady. Temperature fairly steady till 13^h, falling since. Variable light breezes, chiefly southerly. Sky overcast with slight snow at times till 19^h, cloudless or nearly so since.

Sept. 16.—Barometer falling slowly till 3^h, rising slowly and irregularly till 17^h, and rather steadily since. Temperature rising till 10^h, falling slowly since. Light and rather gusty S. breezes all day. Sky clear at times till 10^h and after 21^h, overcast or cloudy rest of day, with slight snow at times.

Sept. 17.—Barometer rising till 19^h, falling rather decidedly since. Temperature low and somewhat unsteady, but showing a well-marked daily range till 22^h, rising 12°·2 in hour following. Variable S. breezes till 21^h, moderate from N. at 23^h and midnight. Sky more clear than cloudy. Cloudless at times. Bright sunshine at times between 10^h and 17^h.

Sept. 18.—Barometer falling till 18^h, rising since. Temperature rising till 18^h, steady since. Rather strong N.W. breezes all day. Sky generally overcast, with fog at 4^h and 5^h. Silver thaw at noon and 13^h, and showers of rain, snow, hail p.m.

Sept. 19.—Barometer rising till 8^h, falling since. Temperature fell quickly till 6^h, and has been rising quickly since. Variable squally breezes and calm a.m., N.W. p.m., and increasing in force in evening. Sky generally overcast, with snow in early morning and continuous snow since 11^h, with considerable drift.

Sept. 20.—Barometer rising steadily. Temperature falling quickly after 8^h, but fall checked till 16^h by well-marked diurnal range. N.W. breezes till 4^h, veering to S.W. and S. since, and falling light. Sky overcast till 5^h, with snow and hail showers; almost cloudless since. Sun rose at 6^h 9^m.

Sept. 21.—Barometer very steady, but showing a fairly well-marked diurnal range. Temperature low, being below zero till 10^h and after 17^h, also showing a well-marked daily range. Very light variable airs (chiefly S.) or calm all day. Sky cloudless in early morning and somewhat cloudy during day. Hoar-frost at 3^h, and a faint solar halo at 14^h. Segment of solar halo and mock sun visible at 18^h.

Sept. 22.—Barometer rising slowly till noon, steady till 22^h, and falling rather decidedly at times since. Temperature low and somewhat unsteady till 7^h, rising till 15^h, and falling a little later, but showing a tendency to rise at midnight. Very light S.E. and S. airs or calm till 14^h, moderate to strong N.E. breeze since. Air very dry at times p.m. Sky somewhat cloudy, with occasional sunshine. Solar halo at noon.

Sept. 23.—Barometer falling quickly till 15^h, rising briskly since. Temperature rising till 9^h, falling since. Strong N.E. and N.N.E. winds till 11^h, rising to the force of a gale from 9^h till noon. S.E. and E. winds p.m., moderating, but reaching gale force at 20^h. Sky overcast till 22^h, with drizzling rain at 2^h and sleet at 3^h. Continuous snow from 4^h to 22^h, with very heavy drift at times. Silver thaw from 2^h to 5^h. From 9^h to 14^h the anemometer was full of fine drifted snow, so that the values recorded are probably 25 per cent. too low.

Sept. 24.—Barometer rising till 13^h, steady till 16^h, falling since. Temperature falling till 6^h, rising slowly

till noon, and quickly at times since. Light S.E. airs or breezes till noon, N. and N.N.W. since, and increasing in force to a strong breeze. Sky cloudless till 5^h, almost so till 16^h, with continuous bright sunshine; overcast since, with slight snow at 20^h and 23^h, and a good deal of surface drift after 16^h.

Sept. 25.—Barometer falling quickly till 13^h, and slowly since. Temperature rising till 16^h, and somewhat steady since. Strong squally and somewhat variable N. and N.E. winds till 10^h, then N.W. light to moderate breezes till 22^h, calm at 23^h and midnight. Sky overcast, with showers of snow. Slight drizzling rain at 3^h and 13^h, and mist at 14^h and 15^h. A single flash of lightning was seen at 21^h 40^m low down in S. by Anderson (night watchman). His testimony is reliable.

Sept. 26.—Barometer falling slowly till 6^h, rising since briskly at times. Temperature high and steady till 6^h, falling since. N.W. light airs or calm till 4^h, about S.S.E. since, and varying in strength from a light to a moderate breeze. Sky overcast throughout, with continuous snow till 16^h, and again at 23^h and 24^h. Heavy hail (graupe) was falling at 3^h.

Sept. 27.—Barometer rising till 9^h, falling since, but rather unsteady from 19^h to 23^h. Temperature falling till 5^h, rising till 20^h, and falling a little since. Light S.S.E. breezes or calm till 7^h, moderate to light N. and N.W. breezes since. Snow and silver thaw at times between 14^h and 19^h.

Sept. 28.—Barometer low throughout and falling till 16^h, rising since. Temperature high and fairly steady till 16^h, falling since. Moderate N.N.W. breezes till 6^h, calm at 7^h and 8^h, and S.E. since, and light to moderate in force. Sky overcast throughout, with slight silver thaw at 1^h, and snow and sleet at 4^h and after 8^h.

Sept. 29.—Barometer rising till 18^h, falling since. Temperature steady except for a slight fall in the early morning. Variable S. light to moderate breezes till 19^h, N.N.E. since. Sky overcast throughout, with snow showers at times till noon and from 21^h to 24^h. Slight silver thaw at midnight.

Sept. 30.—Barometer falling till 22^h, rising slightly since. Temperature rising slowly till 7^h, rather quickly till 15^h, and fairly steady since. Light to moderate N. (N.E. to N.W.) breezes. Sky overcast except at 18^h, with silver thaw at times, and showers of snow and sleet most of day. A faint lunar corona was seen at 22^h.

Oct. 1.—Barometer rising till 4^h, falling till 14^h, and rising again since. Temperature very variable, being 31°·0 at midnight (30th), 15°·8 at 4^h, 37°·0 at noon, and falling to -2°·3 at midnight, the excursions of the temperature being thus 63°·0 in the twenty-four hours. Wind principally S.W. till 4^h, N.W. till 13^h, and S.W. since, very squally. Sky generally overcast, but clear at 3^h and 14^h, and cloudless at 3^h. Snow showers after 8^h, and silver thaw from 8 till noon. Faint lunar corona at 19^h 30^m.

Oct. 2.—Barometer rising slowly till 15^h and briskly since. Temperature falling till 4^h, rising till 19^h, and falling again since. Variable squally S. and S.W. winds all day, moderating and falling light after 16^h. Sky generally overcast, with almost continuous snow till 19^h and a good deal of drift. Faint lunar corona at midnight.

Oct. 3.—Barometer very high and rising till 21^h, falling since. Temperature very low in morning, being below

zero till 8^h, rising till 13^h, unsteady till 20^h, and rising again since. Air very dry at times from 9^h to 18^h. Light S.E. airs or calm till 13^h, N. since and increasing in force, and blowing a fresh to strong breeze at 23^h and 24^h. Sky cloudless or clear till 16^h, overcast after 21^h, with slight snow and silver thaw at times. Thin drizzling rain at midnight. A faint lunar corona was seen at 19^h and 20^h.

Oct. 4.—Barometer falling. Temperature rising slowly. Rather strong and somewhat squally northerly (N.W. to N.E.) winds till 17^h, light in force since. Sky overcast throughout, with occasional snow showers p.m. Slight silver thaw at intervals till 17^h.

Oct. 5.—Barometer falling slowly and irregularly. Temperature high and steady. Rather strong N. and N.W. winds throughout. Sky generally overcast, with slight showers of snow, sleet, and drizzling rain, and occasional silver thaw after noon.

Oct. 6.—Barometer falling slowly. Temperature high and very steady. Light to moderate breezes, chiefly N.N.W. Sky overcast throughout, but sun gleaming faintly at times. Slight showers of drizzling rain at 4^h and 13^h, and snow at 3^h, 23^h, and 24^h. Silver thaw at intervals most of day.

Oct. 7.—Barometer falling slowly. Temperature very steady. Light to moderate N. and N.W. breezes till 16^h, falling very light since, and backing to the N.E. Sky overcast throughout, with almost constant small granular snow. Sun gleaming at times from 11^h to 15^h.

Oct. 8.—Barometer falling slowly. Temperature high and very steady, and air rather dry at times. Light variable N.E. breezes and airs all day. Sky overcast except at 16^h, with almost continuous snow till noon and after 20^h. Solar halo at 11^h. A little sunshine at times between 11^h and 14^h.

Oct. 9.—Barometer falling slowly till 9^h, very steady since. Temperature high and very steady. Air rather dry at times. Light to moderate N.N.E. breezes till 10^h, calm or light variable airs since. Sky generally overcast, with snow showers, and slight silver thaw at 19^h and 20^h, sleet at 19^h. A perceptible but very slight swell was indicated on the tide gauge throughout the day.

Oct. 10.—Barometer steady till 7^h, rising slowly on the whole since. Temperature high and showing a well-marked daily range, falling since 16^h. Air rather dry at times. Light and variable airs, but S.E. breeze after 21^h. Sky generally overcast, with snow showers at times.

Oct. 11.—Barometer rising slowly. Temperature steady, except for a slight fall in early morning. Light S.E. breezes till 20^h, and S.W. since. Sky generally overcast, but a little more than one hour's intermittent sunshine recorded. Light snowfall at 3^h, 4^h, and 24^h.

Oct. 12.—Barometer rising slowly. Temperature steady and air dry at times. Light variable airs or light breezes. Sky generally overcast, with slight snow at times till 16^h.

Oct. 13.—Barometer rising slowly till 9^h, falling slowly till 17^h, and rising again since. Temperature rising slowly till 14^h, very steady since. Air rather dry at times. Light N.W. breezes most of day. Sky generally overcast, with occasional light snow showers.

Oct. 14.—Barometer rising till 21^h, steady since. Temperature steady and air rather dry at times. Squally S.W. breezes most of day. Sky generally overcast till

15^h, clearing since, and cloudless at 22^h and midnight. Snow fell at 2^h.

Oct. 15.—Barometer steady till 5^h, falling till 17^h, and rising since. Temperature rising till noon, fairly steady since. Variable W. and N.W. winds, blowing strong from 11^h to 19^h, and squally since. Sky clear at times, with occasional sunshine. A little snow fell at 7^h and 14^h.

Oct. 16.—Barometer falling till 10^h, very steady since. Temperature steady except for a well-marked daily range. Air dry at times. Very light variable airs or calm. Sky generally cloudless till 11^h, cloudy or overcast since.

Oct. 17.—Barometer fairly steady till 13^h, falling since. Temperature steady. Light to moderate N.W. breezes till 16^h, increasing to a strong breeze since. Sky generally overcast. Fog crystals forming on rigging in forenoon.

Oct. 18.—Barometer falling till 18^h, rising since. Temperature high and steady, and air dry at times. Strong N.N.W. breezes till 14^h, moderating till 19^h, and veering W. and falling light. Sky overcast from 4^h to 19^h, with occasional snow and sleet showers. Clear at times rest of day, and cloudless at 23^h and midnight. Slight silver thaw at 19^h.

Oct. 19.—Barometer falling till 20^h, rising since. Temperature high and steady, and air dry at times. N.W. winds light till noon, and strong and squally since. Sky cloudless till 8^h, generally cloudy rest of day, with a good deal of sunshine. Mist at 9^h.

Oct. 20.—Barometer falling till 10^h, rising since. Temperature high and steady till 18^h, falling since. Variable winds, chiefly N.W., and strong and squally till noon, and S. since. Sky cloudy from 7^h to 18^h, clear or cloudless rest of day. Snow fell at 11^h and 13^h.

Oct. 21.—Barometer rising slowly till 18^h, falling since. Temperature low and fairly steady in early morning, rising p.m. Air dry at times. Light breezes and airs, chiefly S.W., till noon, and N. and N.W. later on. Sky generally clear and cloudless at times, except from 15^h to 18^h.

Oct. 22.—Barometer falling. Temperature high and steady and air dry at times. Strong N.W. breeze most of day. Sky generally overcast, with slight snow at 1^h, 3^h, and 18^h, and drizzling rain with silver thaw at intervals from 13^h to 17^h.

Oct. 23.—Barometer falling slowly till 9^h and very quickly in afternoon, the fall between 15^h and 16^h being 0.104 inch. Temperature steady all day except for a slight rise at noon and again at midnight. N.W. breezes till noon, increasing in force p.m., and blowing a whole gale from 16^h to 18^h with snow and very heavy drift. After 18^h a strong breeze prevailed. Sky generally overcast, but about three-quarter hour's sunshine recorded at intervals till 14^h.

Oct. 24.—Barometer low and falling till 17^h, rising since. Temperature high and steady. Air dry at times. Rather strong and somewhat squally N.W. breezes. Sky cloudy, with a little sunshine a.m.

Oct. 25.—Barometer rising rather quickly at times. Temperature high and steady, and air generally dry. Rather strong squally N.W. breezes all day. Sky generally overcast, with a little sunshine at times. Snow fell at times up to 21^h.

Oct. 26.—Barometer rising slowly. Temperature steady

except for slight daily range. Moderate to light breezes, chiefly N.W. Sky cloudy, with occasional sunshine. Mist and slight silver thaw at 20^h and 21^h. Hazy at 9^h, 17^h, and 18^h.

Oct. 27.—Barometer somewhat unsteady, but showing a decided rise during day. Temperature high till noon, and very high and air dry p.m., when a "Föhn" blew. Rather strong and squally N.W. winds most of day. Sky cloudy, with slight snow at 11^h, sleet at 13^h, and rain at 14^h. About two hours' sunshine recorded before 10^h.

Oct. 28.—Barometer falling. Temperature high and air dry (Föhn wind) till 5^h, but falling till 8^h, and fairly steady and damp since. Fresh to strong N.W. winds all day. Sky generally overcast, with mist at times. Rain fell at 23^h and sleet at midnight.

Oct. 29.—Barometer rising till 11^h, falling since. Temperature rising and air dry (Föhn wind 4^h to 10^h) till 10^h, falling till noon, and fairly steady since. Moderate to strong and somewhat squally N.W. winds all day. Sky generally overcast, with occasional showers of snow, sleet, and rain. A little sunshine at times till 11^h.

Oct. 30.—Barometer falling till about 5^h, rising since. Temperature steady and air rather dry at times. Strong and very squally N.W. winds, veering more W. p.m. Sky generally overcast, with passing showers of snow and sleet till noon.

Oct. 31.—Barometer rising till about 7^h, falling quickly since 16^h. Temperature steady and air somewhat dry at times till 10^h, but saturated or nearly so since. Light to moderate N.W. breezes till 16^h, but increasing in force since, and blowing a gale at 20^h and midnight. Sky generally overcast, with showers of snow and sleet after 14^h. Mist at 22^h, 23^h, and 24^h. Three-quarters of an hour's sunshine recorded between 7^h and 10^h.

Nov. 1.—Barometer falling till 13^h, rising since, briskly since 15^h. Temperature high and rather unsteady till 13^h, falling since. Air damp. Light to moderate N.W. breezes till noon, strong and very squally from S.S.E. p.m., and blowing a hard gale at times. Sky overcast, with snow showers at times.

Nov. 2.—Barometer rising. Temperature low in early morning, but rising quickly after 8^h, falling slowly after 16^h. Air dry at times. Strong squally S.S.E. winds till 4^h. Variable since, lighter in force but still squally. Sky clear at times till 16^h, overcast since.

Nov. 3.—Barometer rising slowly till 17^h, falling since. Temperature steady except for slight daily range. Air dry till about 20^h. Light N.W. and W.N.W. breezes till 22^h, backing to N. since and increasing in force. Sky overcast or cloudy till 10^h, clear till 21^h, overcast again since.

Nov. 4.—Barometer falling; temperature steady, but showing a well-marked daily range. Air dry at times. Light to strong N.W. breezes. Sky generally overcast, with occasional sunshine p.m. Slight silver thaw at 3^h and 4^h, and snow, sleet, and rain at times.

Nov. 5.—Barometer rising briskly from 5^h to 18^h, and slowly since. Temperature falling after 6^h, but steady after 8^h. Variable and somewhat squally winds all day, but carry of lower clouds W. Sky overcast till 10^h, but clear or cloudless till 23^h. Snow and sleet fell till 7^h.

Nov. 6.—Barometer falling till 19^h, rising since. Temperature showing a well-marked daily range and a sudden rise of over 6° at 13^h, followed by a fall of 5° in

hour succeeding. Light to moderate breezes, chiefly N.W. Sky overcast except at 1^h. Slight showers of snow, sleet, and rain after 11^h. Mist at 14^h.

Nov. 7.—Barometer rising after 2^h. Temperature steady except for daily range. Air very dry from 16^h to 19^h. Light but somewhat squally breezes, chiefly W.N.W. Sky cloudy till 15^h and after 21^h, clear interval from 16^h to 21^h, with a good deal of sunshine till 18^h.

Nov. 8.—Barometer rising slowly till 19^h, steady since. Temperature showing a slight daily range. Air rather dry at times. Light N.W. airs most of day. Sky generally cloudy till about 14^h, clear or cloudless since. Hoar-frost at 21^h.

Nov. 9.—Barometer steady till 14^h, falling since. Temperature steady. Light breezes, chiefly N.W. Sky generally overcast. Snow fell at 19^h.

Nov. 10.—Barometer falling till 18^h, then rising. Temperature low in morning, but rising p.m. Light to fresh N.W. breezes. Sky generally overcast. Snow at times after 14^h. Silver thaw at 11 and 23^h, and drizzling rain at 22^h.

Nov. 11.—Barometer rising slowly. Temperature steady. Sky cloudy, but nearly eight hours' intermittent sunshine recorded. Light to moderate N.W. and N.N.W. breezes. Snow fell at 23^h.

Nov. 12.—Barometer steady till about 8^h, falling since, quickly after 10^h. Temperature steady. Light to moderate N.W. breezes till 8^h, but blowing fresh since. Sky generally overcast, with mist till 6^h and occasional snow showers p.m. Slight silver thaw at 4^h, and drizzling rain between 11 and noon.

Nov. 13.—Barometer falling irregularly till 10^h, rising till 23^h, and showing a tendency to fall again at midnight. Temperature steady and air very dry most of day. Light to moderate and somewhat squally N.W. breezes. Sky generally overcast, but about two hours' intermittent sunshine recorded. Hazy at times a.m. Snow fell in passing showers.

Nov. 14.—Barometer falling till 16^h, rising since. Temperature steady till 21^h, falling since. Fresh to strong N.W. breezes in morning, falling light, but becoming somewhat squally p.m. Sky generally overcast, with showers of snow and sleet. Hail fell at noon and drizzling rain at 23^h.

Nov. 15.—Barometer rising till 22^h, but showing a tendency to fall since. Temperature steady and air dry till 20^h. Temperature rising since. Very variable light to moderate breezes till 18^h, N.W. since, but lower clouds W.S.W. Sky overcast, but a little more than an hour's sunshine recorded. Snow fell at 4^h.

Nov. 16.—Barometer falling till 15^h, rising since. Temperature low till 3^h, rising till noon, and very unsteady since, there being occasional blowdowns of a Föhn-like character all day. Air dry. Rather strong squally N.W. and W.N.W. breezes all day. Sky overcast till 15^h, with snow showers till 5^h and rain at intervals till 15^h. About half an hour's sunshine recorded.

Nov. 17.—Barometer falling from 4^h to 18^h, rising since. Temperature high and steady till noon, falling since. Moderate and squally N.W. by W. winds till 23^h, S.E. at midnight, but true wind probably S.W. Sky generally overcast after 4^h, with occasional snow and hail showers. About half an hour's sunshine recorded.

Nov. 18.—Barometer rising quickly till 19^h, steady since. Temperature below 25° till 9^h, rising a little since. Variable squally winds, but clouds from S.W. till about 14^h, and more W. since. Sky cloudy or overcast till 18^h, clear at times since. Showers of snow and hail fell in early morning.

Nov. 19.—Barometer steady in early morning, but falling after 6^h, rather quickly after 19^h. Temperature rather low till 3^h, then a rise of 3°·3, fairly steady rest of day. Light to moderate W.N.W. winds (and N.W.) till noon, increasing in force p.m., and blowing a strong breeze at midnight. Sky clear from 1^h to 3^h and 9^h to noon, generally overcast rest of day. About four hours' sunshine recorded. Drizzling rain was falling at midnight.

Nov. 20.—Barometer falling till 13^h, rising slowly since. Temperature high and fairly steady till 21^h, then fell 7°·3 in hour following, and down to 25°·3 at midnight. Strong N.W. winds till noon, moderating later and falling light after 19^h. Sky overcast from 1^h to 15^h and 22^h to 24^h. Clear interval between, the sky being cloudless at 20^h and 21^h. Heavy drizzling rain, snow, and sleet, accompanied by silver thaw at times and drift till 11^h. Dense fog at 23^h and midnight.

Nov. 21.—Barometer falling slowly till 13^h, but fall gradually increasing since. Temperature low till 6^h, rising on the whole since. Air damp. Light variable N.W. breezes till 15^h, but more northerly since and very squally. Sky cloudless from 2^h to 4^h, but fog at times in early morning, with deposit of fog crystals three-quarters of an inch long. Mist at times p.m., with rain and silver thaw.

Nov. 22.—Barometer rising till 16^h, falling since. Temperature rather high and somewhat unsteady. Air damp. Rather strong N.W. breezes all day. Sky clear from 9^h to 13^h, overcast rest of day. About five hours' bright sunshine recorded. Thick mist at 4^h, and showers of snow, sleet, and drizzling rain at times.

Nov. 23.—Barometer rising till 14^h, falling rather quickly after 20^h. Temperature steady and air damp. Moderate to light N.W. breezes all day. Sky clear at times, with nearly twelve hours' sunshine. Hazy in early morning and mist at night, with silver thaw and drizzling rain at 24^h. Scotia Bay was free of ice after 19^h, the pack breaking up all day under the influence of a heavy swell from the westward.

Nov. 24.—Barometer falling till 7^h, rising since. Temperature steady and air dry most of day. Light N.W. breezes. Sky clear at times, with over six hours' sunshine. Snow at 1^h, 8^h, and 11^h.

Nov. 25.—Barometer rising till 8^h, falling since, quickly since 17^h. Temperature rather high till 15^h, falling since. Light N.W. breezes a.m. Calm or light air from 11^h to 15^h, S.E. since, and blowing fresh after 22^h. Sky generally cloudy. Slight snow fell at 18^h. A moderate sea was coming into Scotia Bay at midnight.

Nov. 26.—Barometer low and steady, but showing a tendency to rise slowly after 11^h. Temperature very steady, except for slight daily range. Rather strong S.E. breezes till noon, falling light p.m. Overcast throughout. A considerable sea coming into Scotia Bay in morning.

Nov. 27.—Barometer rising slowly till 19^h, steady since. Temperature low and very steady, and air moderately dry at times. Very light variable airs and

breezes. Sky generally overcast, with passing snow showers till 5^h and after 17^h.

Nov. 28.—Barometer falling till 13^h, steady since. Temperature steady and air damp. Sky overcast throughout, with snow showers till 8^h and after 23^h.

Nov. 29.—Barometer falling very slowly on the whole, air and temperature steady and air damp. Very light S.E. airs and breezes all day. Sky overcast, but about three-quarters of an hour's sunshine recorded. Heavy snow at times, and showers up till 14^h and at 19^h.

Nov. 30.—Barometer rising slowly till 21^h, falling slowly since. Temperature very steady and air damp. Light to fresh S.E. breezes all day. Sky overcast, with silver thaw and drizzling rain from 3^h to 8^h, and an occasional snow shower p.m. Heavy hail was falling at 22^h.

Dec. 1.—Barometer falling slowly till 16^h, steady since. Temperature very steady and air damp all day. Light airs and breezes, chiefly S. to S.E., but lower clouds moving from S. to S.S.W. Sky overcast except at 7^h. Light snow at 5^h and continuous snow after 10^h. About two hours' sunshine recorded.

Dec. 2.—Barometer very steady, but rising slightly on the whole; temperature steady and air rather damp. Air calm, or very light airs from the N.W. Sky generally overcast, with passing snow showers.

Dec. 3.—Barometer rising; temperature showing a well-marked daily range, with a sharp dip at 4^h. Air moderately dry. Very light breezes, chiefly N.W. Sky generally cloudy, but six hours' sunshine recorded. A little snow at 1^h, and heavy hail between 12.30^h and 13^h. Air very clear, and sea in both Scotia Bay and Uruguay Cove practically smooth.

Dec. 4.—Barometer rising slowly; temperature very steady and air moderately dry. Very light N.W. breezes or calm till 7^h, S.E. to S.S.E. since and light in force. Sky generally overcast, with snow showers after noon.

Dec. 5.—Barometer rising slowly; temperature very steady and air generally damp. Very light S.E. and S.S.E. airs and breezes, but lower clouds from S. Sky generally overcast with snow at times in early morning. About two and a quarter hours' intermittent sunshine recorded.

Dec. 6.—Barometer rising slowly till 17^h, falling slightly since. Temperature rising till noon, falling after 17^h; air moderately dry. Very light airs (S.S.E. or N.) or calm all day. Sky generally overcast. Hail fell at 2^h and snow at 3^h and 4^h.

Dec. 7.—Barometer falling; temperature steady and air damp. Variable and rather squally breezes, chiefly N.W. and N., backing to E.N.E. in evening. Sky generally overcast, with snow and a good deal of drift. Two hours' sunshine recorded.

Dec. 8.—Barometer rising till 15^h, steady till 21^h, and falling again since. Temperature very steady and air damp. Squally variable breezes, chiefly E. till 15^h and N.W. since, but lower clouds moving from N.N.E. to E. all day. Sky overcast, with snow till 9^h and at 13^h. A good deal of drift throughout the day.

Dec. 9.—Barometer falling till 17^h, rising slightly since. Temperature steady and air damp. Strong and somewhat squally winds, principally E., all day. Sky overcast throughout, with drizzling rain at 5^h and constant drifting snow from 16^h.

Dec. 10.—Barometer rising till 18^h, falling slowly since; temperature steady and air damp. Rather strong S.E. breezes till 11^h, falling lighter since. Sky overcast, with snow till 7^h and since 22^h. Pack in Scotia Bay since 8 a.m.

Dec. 11.—Barometer falling till 17^h, rising since. Temperature steady, but showing a well-marked diurnal range. Air damp. Very light airs, principally S.E. or calm. Sky overcast, with mist on hills and snow at intervals. Pack in both Scotia Bay and Uruguay Cove.

Dec. 12.—Barometer rising till 19^h, falling since. Temperature rising till noon, falling slowly since. Air damp. Variable light airs and breezes. Sky generally overcast, but about three hours' sunshine recorded. Snow fell till 5^h and after 21^h.

Dec. 13.—Barometer falling till 11^h, rising since. Temperature steady and air damp. N.W. breezes in morning, but backing to S.E., and increasing in force at times p.m. Sky overcast, with constant snow till 8^h and at midnight.

Dec. 14.—Barometer rising till 16^h, falling till midnight; temperature rather low till 11^h, high at times since, with a "Föhn" at intervals. E.S.E. light breezes till 7^h, N.W. since. Sky overcast and cloudy, with slight snow at 3^h and drizzling rain between 3^h and 4^h.

Dec. 15.—Barometer falling rather quickly at times. Temperature rather high and air damp. Light N.W. breezes till 17^h, but force up to a strong breeze at 20^h and 21^h. Sky generally overcast, with mist at times, but fairly clear till 7^h. A little fine drizzling rain has fallen at intervals p.m.

Dec. 16.—Barometer falling rather quickly at times till 15^h, rising very rapidly since, the rise in the 5^h ending 22^h being 0.595 inch, and in the hour ending 19^h, 0.167 inch. Temperature high and unsteady till 15^h, with a "Föhn" for short time about noon, falling since 15^h. Air dry at times. Moderate to fresh N.W. breezes, squally at times, till 17^h, S.E. or E. since and very squally, but lower clouds from S.W. Sky overcast, with mist at times till 11^h, and drizzling rain, sleet, and snow at times from 15^h to 19^h.

Dec. 17.—Barometer rising till 13^h, falling since; temperature very high and unsteady, with a "Föhn" wind and very dry atmosphere at times between 9^h and 18^h. Strong squally W.N.W. and N.W. winds all day. Sky rather cloudy, but more clear than cloudy from 13^h to 19^h. Hazy to N.W. most of day.

Dec. 18.—Barometer falling till about 11^h, unsteady since. Temperature steady and air damp till 9^h, rising quickly with a dry atmosphere till 14^h, falling since, and air again humid. Light to moderate N.W. breezes all day. Sky overcast till 9^h, with snow at 7^h, 8^h, and 9^h. Little cloud from 11^h to 16^h, overcast again at 19^h. Hazy all afternoon to the W.N.W. and N.W., with low fog at the base of Saddle Island.

Dec. 19.—Barometer falling slowly till 15^h and quickly since. Temperature steady and air saturated or nearly so all day. Light N.W. breezes till 22^h, rising since to a strong breeze at midnight. Sky overcast, with thick mist at times and drizzling rain, rather heavy at times. Snow at 14^h and slight silver thaw at 15^h. Twenty minutes, sunshine recorded.

Dec. 20.—Barometer falling slowly till 19^h and quickly

since. Temperature high and steady till 18^h, falling since. Air damp. Moderate N.W. breezes till noon, calm or light variable airs since. Sky overcast throughout, with mist at times till 13^h. Drizzling rain fell till 3^h and snow after 18^h.

Dec. 21.—Barometer low and falling till 6^h, rising steadily on the whole since. Temperature low and steady from 3^h to 14^h, rising a little since. Air generally damp. Squally light breezes from E. and S.E. till 8^h, N.W. since and stronger. Sky overcast, with heavy snow till 7^h and since 19^h. There has been much drifting all day.

Dec. 22.—Barometer falling till 15^h, rising till 22^h, and falling again since. Temperature steady and air damp. Strong N.W. winds, just short of gale force most of day. Sky clear from 4^h to 6^h, and again from 19^h to 21^h, generally overcast rest of day. Sleet and drizzling rain at times between 8^h and 13^h, and snow at 7^h, 23^h, and 24^h. Hail (*graupel*) was falling at 23^h.

Dec. 23.—Barometer rising till 15^h, falling slowly after; temperature steady, but showing a slight diurnal range. Air damp. Rather strong and somewhat irregular N.W. breezes all day. Sky cloudy or overcast, but a good deal of bright sunshine registered. Slight snow showers at intervals. Faint solar halo at 12^h 30^m.

Dec. 24.—Barometer falling till 15^h, rising briskly since 19^h. Light to moderate N.W. breezes all day, becoming squally after 20^h. Sky generally overcast; with snow showers at intervals.

Dec. 25.—Barometer rising briskly at times; temperature steady and air dry at times. Rather squally N.W. and N.N.W. breezes. Sky generally cloudy or overcast except from 7^h till noon, when a good deal of sunshine was recorded. Snow showers fell between 13^h and 16^h.

Dec. 26.—Barometer rising slowly till 11^h, falling since. Temperature fairly high and very steady. Air damp. Very light W. and N.W. winds. Sky cloudy or overcast from 1^h to 8^h and after noon. Cloudless at 9^h and 10^h. Slight snow fell at 21^h.

Dec. 27.—Barometer and temperature very steady, air damp. Very light W. airs till 16^h, calm till 19^h, and light variable E. airs since. Sky overcast throughout, with mist at 15^h, 16^h, and 17^h and snow showers at intervals.

Dec. 28.—Barometer rising till 10^h, steady till 13^h, and falling since. Temperature steady and air damp. Very light S.E. airs or calm till 9^h, N.W. since and very light. Sky generally overcast. Snow fell at 20^h and at midnight.

Dec. 29.—Barometer falling from 3^h, rising since, briskly after 13^h. Temperature steady and air damp. Very light variable airs, chiefly S.E. and N.W. or calm all day. Sky generally overcast, with snow till 11^h, and slight drizzling rain producing silver thaw at 20^h.

Dec. 30.—Barometer rising till 18^h, falling since, briskly at midnight. Temperature high, and showing a well-marked daily range. Air dry at times. Very light W. and N.W. airs till 21^h, but blowing a moderate breeze at midnight. Sky cloudy, but generally clear, with almost constant sunshine from 11^h to 18^h. Mist from 2^h to 4^h.

Dec. 31.—Barometer falling quickly till 16^h, and at a more moderate rate since. Temperature fairly high and steady, and air damp or saturated. Strong to moderate N.W. winds all day. Sky generally overcast, with mist. Showers of drizzling rain from 9 a.m. till noon.

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Jan. 1.—Barometer unsteady till 6^h, rising since. Temperature high from 2^h to 7^h, with a "Föhn" wind, but falling since. Air dry. Variable to strong breezes, the maximum force being while the Föhn was in progress. Lower clouds from S.W. to W. Sky clear at times till 5^h, generally overcast since, but nearly three hours' intermittent sunshine recorded. Snow showers from 8^h to 10^h, and at 23^h and 24^h. Drizzling rain and slight silver thaw at 21^h.

Jan. 2.—Barometer rising till 7^h, falling since. Temperature rather low and steady; air very dry most of day. Very light breezes in morning, but S.E. or E.S.E. since 9^h. Sky cloudy or overcast except at 4^h and 5^h and 10^h to 13^h. Heavy hail (*graupe*) was falling at 3^h 5^m. About five and three-quarter hours' bright sunshine was recorded. A little after 21^h the sky, sea, and land to the N.W. were of a remarkable blue colour, which was most prominent on the snow-clad peaks and glaciers of Saddle Island. It lasted in its more intense form for about a half an hour.

Jan. 3.—Barometer falling till 11^h, rising since. Temperature low and steady and air very dry. Strong S.E. winds all day, but moderating somewhat after 19^h. Sky overcast, but occasional sunshine between noon and 16^h. Snow fell at 1^h.

Jan. 4.—Barometer rising slowly till 18^h, steady since. Temperature showing a well-marked daily range, and falling quickly after 16^h, being down to 25°·5 in the screen and 14°·7 on the snow at midnight. Rather fresh S.E. breezes till 3^h, light in force or calm rest of day. Sky overcast at 6^h, clear at times since, with over nine hours' sunshine. Hoar-frost at midnight.

Jan. 5.—Barometer very steady. Temperature low in early morning, rising on the whole till 15^h, and steady since. Air rather dry. Very light N.W. airs and breezes. Sky generally overcast, with slight breezes at times after 16^h. Rather hazy to N.W. at 11^h and noon.

Jan. 6.—Barometer rising steadily. Temperature low and steady and air dry. Very variable S.E. airs, mostly light in force, but lower clouds about W.S.W. Sky overcast except at 19^h. Slight to heavy snow at times, and heavy hail (*graupe*) at 2^h 15^m.

Jan. 7.—Barometer steady till 19^h, falling rather quickly since. Temperature steady and air dry till 20^h, saturated or nearly so since. Very light breezes, chiefly N.W. till 22^h, increasing to a moderate breeze since. Sky generally overcast except at 6^h and 7^h, with continuous and sometimes heavy snow since 20^h.

Jan. 8.—Barometer falling till 3^h, rising till 15^h, and falling again since. Temperature rather high and steady, and air damp or saturated. Variable light breezes or calm till 14^h, N.W., since increasing in force. Sky overcast throughout, with showers of drizzling rain and mist at times till noon. Snow at 15^h and heavy rain at 16^h and 17^h, and drizzle again later. Sleet fell at 1^h. About half an hour's sunshine recorded between 11^h and 13^h.

Jan. 9.—Barometer rising till 14^h, falling since. Temperature very high, there being a marked Föhn from

2^h to 13^h, with occasional short intervals of lower temperature. Air dry till 13^h, damp p.m., and saturated or nearly so at and after 20^h. Strong, somewhat squally, N.W. and W.N.W. breezes till 16^h, but falling light since. Sky cloudy or clear from 2^h to 14^h, with over nine hours' bright sunshine; overcast since, with continuous rain (heavy at times) since 18^h.

Jan. 10.—Barometer rather unsteady. Temperature continues high. Air damp. Calm in early morning, light variable S.E. and S. breezes till 10^h, and about W.N.W. since, and somewhat squally. Snow, sleet, and rain at intervals most of day, with a generally overcast sky.

Jan. 11.—Barometer falling till 3^h, rising till 21^h, and steady since. Temperature high and steady, and air rather dry at times. Light to moderate breezes, chiefly N.W. Sky generally overcast, with showers of rain and sleet. Snow at midnight. A partial rainbow was seen at 6^h.

Jan. 12.—Barometer rising slowly since noon, steady a.m. Temperature steady and air rather dry. Light but somewhat squally W.N.W. breezes. Sky generally overcast. Snow fell at 1^h, 14^h, and 20^h, and slight drizzling rain at 10^h and 11^h.

Jan. 13.—Barometer falling till 10^h, rising till 22^h, and about steady since. Temperature steady, but showing a slight diurnal range. N.W. light breezes till 11^h, and S.E. or calm since. Sky overcast except at 1^h, with heavy snow in forenoon and occasional showers p.m. Drizzling rain at 7^h.

Jan. 14.—Barometer rising slowly on the whole; temperature low and very steady. Air moderately dry. Very light breezes and air chiefly S.E. Overcast throughout, with snow in early morning, and drizzling rain producing silver thaw between 7^h and 15^h.

Dr Pirie reported pack ice to the N.W. and N. A few stray pieces have also been seen about the mouth of Scotia Bay. Sea much down in both bays.

Jan. 15.—Barometer rising steadily; air temperature very steady and humidity low. Very light and somewhat variable airs, chiefly S.E., but lower clouds S. to S.S.W. Sky overcast throughout, with slight drizzling rain from 15^h to 17^h.

Jan. 16.—Barometer rising steadily till 13^h, falling slowly since; temperature very steady and air dry. Very light airs and breezes, chiefly N.W. or calm, but lower clouds from W.S.W. to W. Sky overcast except from 15^h to 16^h, when two and a half hours' sunshine was recorded.

Jan. 17.—Barometer falling steadily and rather quickly at times. Temperature steady. Air dry at times till 19^h, damp since. N.W. moderate and somewhat squally breezes most of day, but light in force until noon. Sky overcast, with snow after 19^h.

Jan. 18.—Barometer falling till 17^h, rising since; temperature high and showing a well-marked daily range. Air damp. Variable breezes, chiefly N.W., till 19^h, and S.E. since. Sky generally overcast except from 6^h to 10^h, when four hours' sunshine was recorded. Drizzling rain at times, and mist at 4^h and 6^h. Mist low on hills all day.

Jan. 19.—Barometer rising slowly till 18^h, unsteady since. Temperature very steady and air damp. Light S.E. breezes till noon, N.W. since. Sky generally overcast, with drizzling rain at 1^h and 2^h, and mist at times after 10^h. Mist low on hills all day.

Jan. 20.—Barometer falling very slowly till about 7^h, rising till 18^h, and unsteady since. Temperature steady and air damp or saturated. Rather strong N.W. breeze till 7^h, light or moderate since. Sky overcast, with almost continuous mist (dense at times). Drizzling rain fell at 3^h. Mist low on hills all day.

Jan. 21.—Barometer falling; temperature steady on the whole, but showing a tendency to fall after 16^h. Air damp or saturated. Light N.W. breezes till 17^h, variable, chiefly S.E., since. Sky overcast throughout, with rain from 2^h to 8^h and at 17^h, and mist at times. Mist low on hills all day.

Jan. 22.—Barometer falling slowly till noon, very steady since. Temperature steady and air saturated or nearly so. Light to moderate E. and S.E. breezes. Sky overcast, with constant snow and sleet till 20^h, and drizzling rain at 24^h. Mist low on hills all day.

Jan. 23.—Barometer rising slowly after 10^h. Temperature steady and air damp. Variable light to moderate breezes, chiefly S.E. and E., but lower clouds, when motion discernible, S.W. Sky overcast throughout, with mist at 9^h. Showers of drizzling rain and slight silver thaw till 11^h, snow at 17^h, 19^h, and 23^h, and hail at midnight. Mist low on hills almost all day.

Jan. 24.—Barometer rising till 20^h, steady since. Temperature steady and air dry. Rather strong squally W. and N.W. breezes. Sky generally overcast, but over an hour's intermittent sunshine recorded. A little snow and drizzling rain in early morning.

Jan. 25.—Barometer steady; temperature steady on the whole, but showing a tendency to fall after 18^h. Air dry till about 16^h, but rather damp since. Light to moderate N.W. and W.N.W. breezes. Sky overcast from 1^h to 8^h and after 17^h, cloudy rest of day, but a good deal of bright sunshine—over six hours—recorded. Snow and sleet fell from 2^h to 7^h, and occasional snow showers after 20^h.

Jan. 26.—Barometer rising slowly till 20^h, falling slightly since. Temperature very steady, and air damp after 6^h. Very variable and somewhat squally winds, but lower clouds S.W. or W.S.W. throughout. Snow showers most of day, with occasional slight to moderate drift. Overcast throughout.

Jan. 27.—Barometer falling till noon, but rising since. Temperature steady and air damp. Light N.W. breezes till 10 a.m., S.E. since, and somewhat stronger but lower clouds from S.W. Overcast except at 1^h and 2^h, with almost constant snow after 4^h. Mist on hills most of day.

Jan. 28.—Barometer rising slowly till 19^h, steady since. Temperature very steady and air rather damp. Variable and somewhat squally S.E. breezes, but lower clouds from S.W. Sky overcast throughout, with passing showers of snow all day.

Jan. 29.—Barometer rising slowly; temperature steady and air rather dry. Light variable breezes, chiefly S.E., but lower cloud motion from S.W. to S.S.W. Sky overcast throughout, with snow at 2^h, 3^h, 8^h, and 9^h.

Jan. 30.—Barometer falling slowly till 18^h, rising

since. Temperature steady and air moderately dry. Calm or very light airs till 6^h. E. and S.E. light to moderate breezes since, and lower clouds moving in same direction as surface winds. Sky overcast throughout, with mist on hills and slight drizzling rain from 8^h to 14^h.

Jan. 31.—Barometer rising till 18^h, falling since, rather quickly after 21^h. Temperature steady, except for sudden fall of 3°·1 between 20^h and 21^h, and a rise of 3°·0 between 22^h and 23^h. Air generally very dry. S.E. light to moderate breezes till 16^h, falling very light at 18^h and 19^h, calm at 21^h and 22^h, and backing to the N.N.W. since. Sky overcast except from 18^h to 21^h.

Feb. 1.—Barometer falling quickly till noon, rising briskly since. Temperature fairly steady except for usual daily range. Air damp or saturated. Strong squally N.W. winds, reaching gale force in squalls till 7^h, S.E. light breezes p.m. Sky overcast, with heavy snow and drift from 3^h to 10^h 30^m, and showers of drizzling rain, sleet, and snow p.m. Hills covered with mist all day.

Feb. 2.—Barometer rising steadily; temperature fairly high till 16^h, falling since. Air dry at times. Light N.W. and W. breezes most of day. Sky overcast except from 14^h to 21^h, when two hours thirty-five minutes' sunshine was recorded. Showers of drizzling rain fell in morning, and snow at 3^h, 4^h, and 8^h. Heavy hail was falling at 8^h 5^m. Very low tide.

Feb. 3.—Barometer falling all day, quickly after 11^h. Temperature rather low in early morning, but rising somewhat p.m. Air damp or saturated. Strong N.W. winds and breezes all day. Sky overcast, with heavy snow and thick drizzling rain after 7^h. A little hail fell at 18^h, mixed with rain. Mist low on hills most of day.

Feb. 4.—Barometer falling till 3^h, rising till 21^h, and falling slightly since. Temperature steady and air dry at times. Moderate to fresh N.W. and W.N.W. breezes. Sky generally overcast, with showers of snow, sleet, hail, and rain. Mist on hills most of day.

Feb. 5.—Barometer rising till 17^h, after falling till 4^h; falling again after 17^h. Temperature high, and showing a well-marked daily range. A slight "Föhn" prevailed from 4^h 30^m to 18^h, rather damp rest of day. Strong squally N.W. and W.N.W. winds most of day. Sky cloudy, but over five and a half hours' intermittent sunshine recorded. Drizzling rain and heavy rain fell at times till 7^h and sleet at 2^h. A rainbow was seen at 14^h 45^m, and mist at midnight.

Feb. 6.—Barometer falling till noon, rising since. Temperature high and fairly steady. Rather strong squally N.W. and W.N.W. winds all day. Sky generally overcast, with occasional showers of sleet and rain, but clear at 7^h and 8^h and from 15^h to 20^h. Mist at 1^h.

Feb. 7.—Barometer unsteady or falling till 11^h, rising since. Temperature high and steady and air dry. N.W. and W.N.W. breezes except from 11^h to 15^h, when it was S.S.E., but lower clouds then from S.W. Sky clear at times, with over four and a half hours' sunshine. Overcast from 9^h to 14^h, with heavy snow.

Feb. 8.—Barometer somewhat unsteady till 14^h, falling since. Temperature high and fairly steady. Air dry at times, but humidity varying very much. Light N.W. or W.N.W. breezes till 17^h, but blowing a strong breeze at times since. Sky clear at times from 2^h to 6^h, at 11^h, and from 15^h to 18^h. About four hours' bright sunshine.

Solar halo at 7^h and 20^h, and sleet at 21^h and 23^h. Hazy at times.

Feb. 9.—Barometer falling till 10^h, rising since, very quickly from 23^h to midnight, when the rise amounted to 0.086 inch. Temperature high and steady, and air damp. Strong, somewhat squally, N.W. winds all day. Sky generally overcast, but with clear patches at times, and over an hour's intermittent sunshine. Very hazy at times, with showers of rain, snow, and sleet, and silver thaw at midnight.

Feb. 10.—Barometer rising till 7^h, falling till 17^h, and rising since. Temperature very steady and air rather damp. Wind S.E. and E. till 4^h (then lower clouds were S.W.), but N.W. and N.N.W. since. Sky cloudy from 2^h to 8^h, overcast since, with showers of snow and drizzling rain. Solar halo from 8^h to 10^h. Low ground mist at 19^h.

Feb. 11.—Barometer rising till 8^h, unsteady rest of day. Curious V-shaped dip at 15^h, when "Föhn" wind commenced. Temperature high as a whole, and very high at 15^h, 16^h, and 17^h, when a marked "Föhn" prevailed. Strong, somewhat squally, N.W. and W.N.W. breezes. Sky generally overcast, but blue patches at times. Drizzling rain at times till 21^h, and heavy rain after. Hazy at times. Air rather damp as a whole.

Feb. 12.—Barometer rising till midnight. Temperature high till about 18^h, there being a marked "Föhn" from 2^h to 10^h. Rather strong N.W. and N. breezes. Sky generally overcast except from 2^h to 6^h. About four and a half hours recorded. A faint lunar halo was seen at 3^h.

Feb. 13.—Barometer rising. Temperature rather high till 11^h, but falling since. Squally W. and N.W. winds till 8^h, but S.E. and E. since. Lower clouds moving from W. and S.W. Slight showers of snow and hail at times. About an hour's sunshine recorded.

Feb. 14.—Barometer rising. Temperature steady and air rather dry. Rather strong S.E. wind all day, but clouds moving from S.W. and S. Overcast throughout, with snow at times till noon.

"Scotia" arrived in Uruguay Cove at 12 noon.

Feb. 23.—At noon, lat. 61° 28' S. long. 41° 55' W.—A moderate S.W. breeze. All day it has been overcast, though in the evening after 16^h, the clouds broke a little.

Feb. 24.—At noon, lat. 62° 49' S. long. 38° 12' W.—Fine weather, with a very steady barometer and occasional passing showers of snow.

Feb. 25.—At noon, lat. 64° 29' S. long. 35° 29' W.—S.W. winds and passing snow showers, during which wind increased. Barometer very steady, but rising slightly. Fine, overcast, or cloudy weather.

Feb. 27.—At noon, lat. 66° 26' S. long. 31° 25' W.—Fine, clear, light or calm weather, cloudy or almost cloudless. Barometer rising.

Feb. 28.—At noon, lat. 66° 21' S. long. 28° 30' W.—Another fine day, with E. and S.E. light airs and fairly steady barometer. Cloudy to overcast, but some sunshine at times.

Feb. 29.—At noon, lat. 68° 08' S. long. 27° 10' W.—Calm, fine, overcast weather.

March 1.—At noon, lat. 68° 43' S. long. 24° 15' W.—A falling barometer and a freshening breeze from N. Wind afterwards became more W. The weather was

thick, with soft wet snow falling, and one could only see a quarter of a mile ahead.

March 2.—At noon, lat. 71° 04' S. long. 23° 10' W.—Overcast and breezy, breeze stiffening into a hard gale by noon, which blew for about twelve hours. Snow all the morning, and slight showers during the day. The barometer was 28.652 at 15^h, rising rapidly, and the temperature 27° 0. The sky was heavily overcast, with stratus clouds.

March 3.—At noon, lat. 72° 18' S. long. 17° 59' 15" W.—At 3^h the sky began to clear and the wind became less, while the temperature rose slightly, with the air dry. At about 4.30 a.m. the sun rose clear out of the horizon and there was bright sunshine till after 9^h, after which thin cirrus and cirro-stratus clouds began to cover the sky, and after 10^h the sun was only gleaming, though brightly, with marked large halo. The atmosphere was very clear. Later, the barometer fell rapidly and the sky became more and more thickly clouded, while the wind and sea were rising from the N.N.E. At 17^h a fresh strong breeze was blowing, with a nasty sea. All the evening it was breezy, the wind rising to the force of a gale at 19^h and 20^h, with very thick soft snow falling, so that one could not see more than 300 or 400 yards ahead. At midnight the weather was still the same, though the wind was not so strong.

March 4.—At noon, lat. 72° 22' S. long. 18° 13' W.—Very thick, with heavy snow falling continuously till 13^h, but after that it began to clear a little. At 18^h it cleared still more. N.N.E. wind. About 19^h snow began to fall again and became very thick. Low-lying stratus cloud, and apparently drift.

March 5.—At noon, lat. 72° 31' S. long. 19° 00' W.—A moderate breeze and considerable swell.

March 7.—At noon, lat. 74° 01' S. long. 22° 0' W.—After 1^h the wind began to rise, with a falling barometer, and continued to increase, and the snow to fall more thickly. After 6^h it reached the force of a gale from the E.N.E., with heavy snow falling and much drift. All day it blew hard, now E.S.E. and now E.N.E., with very heavy drift off the great inland ice sheet, the temperature varying between 21° and 24°. The barometer remained low all day and night, and pumped considerably.

March 8.—At noon, lat. 74° 01' S. long. 22° 00' W.—From midnight blowing almost continuously, and hardly below the force of a gale till 17^h. Heavy snowdrift.

March 9.—At noon, lat. 74° 01' S. long. 22° 00' W.—Till 8^h the wind was up to the force of a gale; for the rest of the day there was a strong breeze, the temperature varying from 22° to 23°. Considerable drift and some snow.

March 10.—At noon, lat. 74° 01' S. long. 22° 00' W.—Fine light weather, clearing up in the morning, and getting clearer, brighter, and calmer all day. Temperature falling in the evening from 21° at 19^h to 8° 8 at midnight.

March 11.—At noon, lat. 74° 01' S. long. 22° 00' W.—This morning at 5^h the thermometer fell as low as 3° 2 F. The weather was perfect,—calm, cloudless, and clear all day. The thermometer remained low in spite of a powerful sun, the maximum being 19° 0 at 13^h. At times cirrus clouds, but mostly cloudless, sunny, and calm. At times indication of a S. and S.W. air. At night again the temperature fell, with clear sky, to 4° 2 F.

March 12.—At noon, lat. 74° 01' S. long. 22° 00' W.

—At 4^h the temperature below zero, $-0^{\circ}3$ F., with a cloudless sky, and very clear and dry atmosphere, the wet bulb being $-4^{\circ}8$ F. and calm. Light S.W. air later and rise in temperature, which was $12^{\circ}3$ F. at 8^h, $15^{\circ}5$ at 9^h, and $16^{\circ}8$ at 10^h. Dull, overcast weather later. At 6^h a thermometer exposed on the surface of the snow fell to $-6^{\circ}4$.

March 13.—At noon, lat. $73^{\circ}46'$ S. long. $22^{\circ}55'$ W. —Barometer falling. Temperature 10° to 19° F. Fine, bright, clear, sunny, and cloudy day. Wind W. and S.W. till after noon, then calm.

March 14.—At noon, lat. $73^{\circ}11'$ S. long. $23^{\circ}53'$ W. —Calm or light airs all day. Barometer steady; temperature rising from $11^{\circ}1$ F. to 25° at noon, and falling to $22^{\circ}1$ at 23^h. Overcast, dull weather, with a considerable amount of snow falling.

March 15.—At noon, lat. $71^{\circ}50'$ S. long. $23^{\circ}40'$ W. —Barometer more or less steady, rising only slightly. Winds light, N.W. to W.S.W. Overcast, dull weather. Temperature 22° to 23° till 5^h, falling to $15^{\circ}3$ at 14^h, remaining 16° and 17° for the rest of the day.

March 16.—At noon, lat. $71^{\circ}28'$ S. long. $22^{\circ}32'$ W. —Barometer steady, $29^{\circ}20$. Temperature rising from $16^{\circ}4$ at 1^h to 26° at midnight. Calm or light airs. Cloudy in morning, becoming overcast. Bright sunshine from 7^h to 10^h.

March 17.—At noon, lat. $71^{\circ}22'$ S. long. $18^{\circ}19'$ W. —Barometer still steady, $29^{\circ}20$; temperature 27° to 30° all day. Gentle W. breeze most of day. Sky cloudy, with some sunshine in forenoon, becoming overcast afterwards.

March 18.—At noon, lat. $71^{\circ}18'$ S. long. $16^{\circ}33'$ W. —Barometer falling slightly, $29^{\circ}142$ to $28^{\circ}789$; temperature steady, 28° to 29° F. Wind gentle, N.W. breezes till 8^h, N.E. to N. afterwards. Fine, clear, overcast weather, with occasional light showers of snow.

March 19.—At noon, lat. $71^{\circ}30'$ S. long. $17^{\circ}15'$ W. —Barometer rising slightly, $28^{\circ}760$ to $29^{\circ}957$; temperature falling, $28^{\circ}1$ to $21^{\circ}5$ F. Light to moderate N. and N.E. breezes.

March 20.—At noon, lat. $71^{\circ}17'$ S. long. $18^{\circ}50'$ W. —Barometer rising slightly, $28^{\circ}972$ to $29^{\circ}120$; temperature 21° to 27° F. Overcast to cloudy all day. Light breezes, about E.N.E., falling to calm in evening. Fine light weather.

March 21.—At noon, lat. $69^{\circ}33'$ S. long. $15^{\circ}18'$ W. —Barometer fairly steady till 15^h and rising afterwards, $29^{\circ}178$ at midnight. Temperature 26° to 28° F., air dry. Calm or nearly so all day. Very fine clear weather.

March 22.—At noon, lat. $68^{\circ}32'$ S. long. $10^{\circ}52'$ W. —Barometer rising all day, from $29^{\circ}186$ to $29^{\circ}560$. Temperature 26° to 32° F. Bright, sunny, clear, fine day. Sky cloudless most of the time. Calm smooth sea, with only slight swell.

March 23.—At noon, lat. $68^{\circ}32'$ S. long. $12^{\circ}49'$ W. —Barometer steady. Temperature steady, 29° to 30° F. Bright and cloudless, with sunshine in morning, becoming clouded after noon. Wind W.S.W. to W.N.W., force 2 to 4. Moderate sea.

March 24.—At noon, lat. $68^{\circ}41'$ S. long. $12^{\circ}36'$ W. —Barometer falling, $29^{\circ}568$ to $29^{\circ}067$. Wind moderate to strong breeze, increasing and backing from W. to N. Temperature about 30° . Cloudy and fine till 4^h, overcast and dull with snow and sleet since.

March 25.—At noon, lat. $68^{\circ}26'$ S. long. $11^{\circ}11'$ W. —Barometer unsteady, but falling on the whole. Temperature steady, 30° to 31° F. Overcast, cloudy, drizzling snow and sleet, with light N. and N.E. winds and calm.

March 26.—At noon, lat. $67^{\circ}36'$ S. long. $12^{\circ}05'$ W. —Barometer falling unsteadily all day. Temperature steady, 30° to 31° F. Overcast, dull, gloomy, misty weather, with rain, sleet, snow, and silver thaw. Wind N.E. to N.N.W.

March 27.—At noon, lat. $66^{\circ}57'$ S. long. $11^{\circ}13'$ W. —Barometer fell to $28^{\circ}142$ inch at 7^h; temperature $30^{\circ}5$ to $28^{\circ}5$. Mostly overcast, but at times only partly clouded, with sun gleaming even brightly. Wind variable, N.N.E. to W. and N., force 2 to 4.

March 28.—At noon, lat. $65^{\circ}57'$ S. long. $11^{\circ}13'$ W. —Barometer rising, temperature steady. Cloudy to overcast, with passing showers of snow. Sun gleaming bright at times in forenoon. Light winds to fresh, almost calm at 20^h, but freshening after 21^h 30^m. Direction N.N.W. to W. by N.

March 29.—At noon, lat. $63^{\circ}54'$ S. long. $10^{\circ}42'$ W. —Barometer rising; temperature steady, 28° to 30° F. Wind W., fresh to strong breezes till 4^h, blowing gale force from 4^h till 17^h, then gradually abating, till at midnight only a moderate to fresh breeze. High sea running till 16^h.

March 30.—At noon, lat. $61^{\circ}25'$ S. long. $12^{\circ}47'$ W. —Barometer rising; temperature steady, $28^{\circ}5$ to $30^{\circ}5$ F. Wind W. to W.N.W., falling light from 5^h till 21^h. Moderate before and after. Cloudy to overcast, with occasional glimpses of sunshine.

March 31.—At noon, lat. $60^{\circ}37'$ S. long. $12^{\circ}16'$ W. —Barometer unsteady, between $29^{\circ}551$ and $29^{\circ}500$ from 1^h till 11^h, then falling rapidly to $28^{\circ}476$ at midnight, when it was still falling. Temperature 29° to 32° F.; sky generally overcast. Wind backing from W. to N. at 10^h to N.N.E. at 23^h, and N. at 24^h, and constantly increasing in force from 4–5 to 8–9.

April 1.—At noon, lat. $60^{\circ}33'$ S. long. $12^{\circ}00'$ W. —Barometer falling, $28^{\circ}426$ at 1^h to $28^{\circ}117$ at 13^h, then rising rapidly to $28^{\circ}553$ at midnight. Temperature falling 32° to 27° F. Overcast, with rain, sleet, and snow. Strong N.N.E. and N. gale from 1^h till 5^h, light W. breezes from 13^h to 16^h, then wind again increasing to a strong W. gale at 21^h.

April 2.—At noon, lat. $58^{\circ}40'$ S. long. $12^{\circ}23'$ W. —Barometer rising from $28^{\circ}629$ at 1^h to $29^{\circ}114$ at 23^h. S.W. gale till 15^h, very hard during middle and morning watch. Overcast to cloudy, with showers of snow. After 13^h weather and sea moderating, only light airs during the evening. Undoubtedly the most severe gale we have had.

April 3.—At noon, lat. $56^{\circ}55'$ S. long. $10^{\circ}0'$ W. —Barometer rising slowly from $29^{\circ}099$ at 4^h to $29^{\circ}690$ at midnight. Temperature 30° to 32° F. Light airs and calm, N. and N.E. till 9^h, W. and S.W. to W.N.W. after 15^h. Some sunshine about midday; a considerable swell, but fine light weather.

April 4.—At noon, lat. $55^{\circ}08'$ S. long. $10^{\circ}0'$ W. —Barometer rising till 7^h, then falling till midnight. Temperature rising, $32^{\circ}2$ to $36^{\circ}0$. A beautiful clear moonlight night, mostly cloudless, with light airs or calm.

Began to cloud over at 6^h and wind rising to a gale, with falling barometer after 7^h. Solar halo at 8^h and 9^h.

April 5.—At noon, lat. 55° 25' S. long. 13° 00' W.—Barometer falling till 6^h, then rising till midnight. Temperature 38° to 34° F. Overcast, with rain or drizzle till 8^h. Cloudy to cloudless, with sunshine and passing showers of snow in afternoon and evening. Moderate to strong gale all day, N. till 5^h, becoming N.W. afterwards. Sea rough all day.

April 6.—At noon, lat. 54° 33' S. long. 11° 47' W.—Barometer rising till noon, then falling till midnight. Temperature 34° to 37°·7. Wind force 6 to 8, N.W. and N.N.W. Rain and hail. Bright sunshine for a good part of the day. Rough but fairly regular sea, wind and sea increasing in the evening.

April 7.—At noon, lat. 53° 58' S. long. 10° 10' W.—Barometer rising; temperature falling, 37° to 33°. Overcast or cloudy, with some rain and snow and sleet. Hail from 10.5^h till 10.20^h. Sea decreasing; strong gale to fresh breeze till 16^h from W.N.W. and N.W., light N.N.W. winds afterwards.

April 8.—At noon, lat. 52° 33' S. long. 9° 47' W.—Barometer rising; temperature steady, 33° to 36°. Cloudy or cloudless. Moderate and gentle N.W. breezes and sea, but a very considerable swell running. Fine, bright, sunny day, a rest from the endless gales and heavy seas of late.

April 9.—At noon, lat. 51° 07' S. long. 9° 31' W.—Barometer steady; temperature 34°·7 to 37°·4. Light airs to moderate breezes from N.W. Cloudless till 5^h, becoming cloudy during the day, with some sunshine, and then overcast, with slight showers of rain in the evening. A fine day, with a moderate sea.

April 10.—At noon, lat. 49° 25' S. long. 9° 21' W.—Barometer fairly steady till noon, falling afterwards. Temperature 37°·9 to 41°·4. Cloudy and bright sunshine till 15^h. Mostly overcast afterwards, and rain at night.

April 11.—At noon, lat. 48° 53' S. long. 9° 25' W.—Barometer falling till 3^h, rising thereafter. Strong gale till 10^h N.W. to W.N.W., wind moderating and veering thereafter to gentle E.S.E. breeze at 24^h. Temperature falling from 42° to 36°. Overcast. Heavy sea in morning, going down rapidly afterwards.

April 12.—At noon, lat. 48° 0' S. long. 9° 50' W.—Barometer falling. Wind veering from E.S.E. to N., gentle to fresh breeze. Rain and drizzle almost the whole day. Heavily overcast sky. Temperature rising till 19^h, 36°·1 to 42°·8. Steady afterwards. Sea smooth on the whole.

April 13.—At noon, lat. 48° 06' S. long. 10° 6' W.—Barometer rising. Temperature falling from 42° to 34°·5. Fresh to moderate S.W. and S.S.W. breezes, with moderate sea running. Cloudy, squally, showery, and some sunshine.

April 14.—At noon, lat. 46° 35' S. long. 10° 10' W.—Barometer falling; temperature rising. Wind backing E. to N.E., and increasing in force. Fine during day, cloudy and bright, becoming overcast and raining in evening.

April 15.—At noon, lat. 45° 54' S. long. 10° 04' W.—The barometer curve is striking to-day, and the barograph and statoscope should be carefully referred to. The barometer fell till 15^h 37^m very rapidly since noon, then it turned very sharply, making a V-shaped curve on the

barogram. About 1^m or 2^m after the turn I set the statoscope, which shows the squalls and heavy seas running at the time. At 1^h barometer was 29·496, at 15^h 28·704, at midnight it rose again to 29·215. Between noon and 13^h the wind rose very suddenly from a moderate breeze to a strong gale, which lasted all the afternoon and evening. After the rise of the barometer the wind veered 4 to 6 points to the westward. It blew very hard all the afternoon. Temperature varied from 48° to 45°. There were spells of sunshine, and showers and squalls. The sea rapidly became very rough.

April 16.—At noon, lat. 45° 25' S. long. 10° 19' W.—Barometer rising till noon, then falling till 18^h. Fairly steady thereafter. Fresh breeze to gale W. and N.W., with confused heavy sea. Cloudy or overcast, with some sunshine at times. Lightning and very heavy rain in the evening.

April 17.—At noon, lat. 44° 30' S. long. 9° 43' W.—Barometer steady on the whole. Temperature rising from 42° to 51°·3. (First time above 50° F.) Hard gale all day, W. and N. to N.N.W. Cloudless at times to overcast, and some sunshine, with very rough sea. Lightning at 21^h 15^m.

April 18.—At noon, lat. 43° 21' S. long. 8° 30' W.—Barometer falling slightly. Temperature high, 52° to 54°. First day entirely above 50°. Wind N.N.W. Fresh to whole gale all day. High sea running. Mostly overcast, with drizzle and rain.

April 19.—At noon, lat. 42° 57' S. long. 8° 13' W.—Barometer rather unsteady. Temperature steady. Overcast and rain all day. Wind veering W. and S. to S.E. at 9^h, and light, mostly S.S.E., for rest of day. Very heavy N.W. swell, continuing all day.

April 20.—At noon, lat. 41° 30' S. long. 9° 55' W.—Barometer falling till 5^h, steady since. Temperature rising from 45°·4 to 57°. Wind S.S.E., moderate to fresh till 10^h, veering to N. and W. at night. Overcast with rain till 22^h, clearing up afterwards. Sea sharp, becoming confused afterwards with change of wind.

April 21.—At noon, lat. 40° 20' S. long. 9° 56' W.—Barometer steady on whole. Temperature high, 58°·4 to 52°·1. Wind N. to W.N.W. Very hard squalls. Cloudy and many passing showers, with very fine display of rainbows, several double ones. Intermittent sunshine. Scud and haze covered the tops of the land, and especially the northward, most of the day.

April 22.—At Gough Island.—Barometer steady till 18^h, rising till midnight. Temperature steady. Wind W. to N.W., with hard squalls till 5^h, steadier afterwards, becoming squallier at night. Showery, and intermittent sun. Lightning in morning watch. Lunar rainbow at 19^h 45^m. Weather fine mostly, with occasional squalls, rainbows, and some passing showers, the really heavy ones being at 10^h and about 19^h 30^m.

April 23.—At Gough Island.—Barometer rising. Temperature steady. Wind veering W. to S., squally. Light to strong breezes. Cloudy and sunshine, and continually increasing swell.

April 24.—At noon, lat. 39° 58' S. long. 8° 36' W.—Barometer high and fairly steady. Temperature 48° to 52°. Wind S., backing to N.E. Calm or light breezes. Some sunshine.

April 25.—At noon, lat. 40° 22' S. long. 5° 45' W.—

Barometer falling. Temperature $50^{\circ}5$ to $53^{\circ}8$. Wind N.E. Moderate breeze till noon, then strong breeze till midnight. Dull, overcast, sunless weather, with rain after 14^h. Considerable sea running.

April 26.—At noon, lat. $41^{\circ}15'$ S. long. $2^{\circ}38'$ W.—Barometer falling till 4^h, rising till midnight. Temperature 54° till 9^h, falling to $46^{\circ}5$ by midnight. Moderate gale to strong breeze till 21^h. Moderate breeze afterwards. Wind veering from N.E. to W.S.W. Overcast or cloudy. Occasional glimpses of the sun. Bright moonlight at night.

April 27.—At noon, lat. $40^{\circ}33'$ S. long. $0^{\circ}7'$ E.—Barometer steady. Temperature 46° till 7^h, rising to $51^{\circ}3$, by 14^h 48° , to 52° afterwards. Air dry. Moderate W. breeze till 5^h. Light airs and calm rest of day. Fine sunny weather. Considerable swell, continually subsiding as day advanced.

April 28.—At noon, lat. $40^{\circ}08'$ S. long. $1^{\circ}50'$ E.—Barometer falling. Temperature 50° to 55° . Calm or light variable airs all day. Overcast and misty, with drizzle and rain most of the day. Sea very calm, only a slight swell.

April 29.—At noon, lat. $39^{\circ}48'$ S. long. $2^{\circ}33'$ E.—Barometer steady. Temperature 48° to $54^{\circ}5$. Cloudy or overcast, light W. winds. Clear, some sunshine. Altogether a pleasant day.

April 30.—At noon, lat. $39^{\circ}27'$ S. long. $5^{\circ}50'$ E.—

Barometer steady. Temperature 51° to 56° . Wind light to moderate, W.N.W. to N. Clouds, few detached, and sunny. Very fine day.

May 1.—At noon, lat. $39^{\circ}25'$ S. long. $10^{\circ}25'$ E.—Barometer fairly steady. Temperature rising, 56° to $59^{\circ}7$. Overcast to cloudy. Wind veering N. to N.W., fresh and strong breezes.

May 2.—At noon, lat. $38^{\circ}06'$ S. long. $14^{\circ}32'$ E.—Barometer rising. Temperature steady, 58° to 61° F. Overcast to cloudy, with showers and rainbows, and considerable amount of bright sunshine. Wind veering N.W. to W. Moderate breezes to calm.

May 3.—At noon, lat. $35^{\circ}37'$ S. long. $15^{\circ}3'$ E.—Barometer high and fairly steady. Temperature steady. Wind veering from S.S.W. to S.S.E. Calm to moderate breezes. Occasional sunshine. Fine, clear, dry weather.

May 4.—At noon, lat. $34^{\circ}58'$ S. long. $17^{\circ}00'$ E.—Barometer falling slightly. Temperature 64° to 58° . Wind S.E., light airs to moderate breezes. Cloudy, clear weather till 22^h, with considerable amount of bright sunshine.

May 5.—Off Cape Peninsula.—Barometer steady; temperature steady. Light W.N.W. airs or nearly calm till 8^h; then N., suddenly increasing to force 3 at 8^h 30^m, going to N.N.W. at 15^h. Cloudy to overcast, some sunshine at times. Light, variable, dull weather.

METEOROLOGICAL OBSERVATIONS.

CAPE PEMBROKE, FALKLAND ISLANDS.

LATITUDE 51° 41' S. LONGITUDE 57° 42' W.

1903.

BAROMETER READINGS CORRECTED AND REDUCED TO
32° F. AND MEAN SEA LEVEL.

WINDS ARE TRUE, AND THE FORCE BY BEAUFORT
SCALE 0-12.

CLOUD AMOUNT = 0 TO 10.

METEOROLOGICAL OBSERVATIONS

MADE AT

CAPE PEMBROKE, FALKLAND ISLANDS,

DURING THE YEARS 1903-1904.

ON the arrival of the "Scotia" at Port Stanley, Falkland Islands, in January 1903, a number of new instruments, sent out by the Meteorological Office, were taken to Cape Pembroke Lighthouse, which, through the courtesy of Dr W. N. SHAW, F.R.S., Director, of the above Office, was to serve as a base station during the time the "Scotia" was in the south. The observations were made every four hours by Mr JOHN PEARCE, principal lighthouse keeper, and his assistant. The data given in the following tables were prepared in the Meteorological Office, and from these data the means were computed. A barograph was also left by the "Scotia," the charts of which are discussed in the general results. A sunshine recorder was set up at Port Stanley in charge of His Excellency Mr (now Sir) WILLIAM GREY WILSON, the Governor of the Islands. The tabulation of the sunshine values was also carried out at the Meteorological Office.

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun-shine.	Remarks.					
	4		Noon.		8		Midt.		4		Noon.		8		Midt.				4		8 M.		
	in.	°	in.	°	in.	°	in.	°	in.	°	in.	°	in.	°	in.	°			4	8	N.	4	8 M.
1	29.815	29.824	29.860	29.843	29.811	29.780			NW	3 W	1 NE	2 NE	3 NE	4 NE	4	6	3	2	4	10	10	hrs.	Fog set in at 8 p.m.
2	29.784	29.685	29.638	29.582	29.650	29.831			NE	4 NE	6 NNE	7 N	6 W	6 W	7	10	6	8	10	4	2	...	Fog continuing till 6.30 a.m.
3	29.963	30.028	30.097	30.079	30.069	29.998			W	4 NW	3 N	5 N	6 N	5 NNE	7	3	2	4	5	8	10	...	
4	29.920	29.805	29.755	29.669	29.598	29.476			NE	5 NE	6 NE	6 NE	5 NE	5 NE	3	10	10	10	10	10	10	...	Fog set in at 6.30 a.m. Heavy ground sea from N.E.
5	29.473	29.506	29.537	29.636	29.680	29.776			NE	3 NE	2 SW	5 SW	6 SW	6 W	3	10	10	5	5	6	2	...	4 a.m., heavy ground sea. 8.15 a.m., fog cleared.
6	29.816	29.806	29.692	29.644	29.598	29.558			NW	4 NW	4 NW	6 NW	5 NW	3 NW	4	4	8	8	8	6	...	...	
7	29.575	29.573	29.560	29.563	29.573	29.573			NW	2 N	2 N	4 N	3 NE	4 NE	3	5	4	10	8	8	6	...	8.45 a.m., fog set in. 3.40 p.m., fog cleared.
8	29.568	29.499	29.438	29.417	29.390	29.274			N	3 NNE	5 NNE	6 N	6 N	4 N	5	10	6	6	5	7	8	...	Fog from 4 to 4.30 a.m.
9	29.272	29.061	28.926	28.793	28.750	28.913			NE	5 NE	5 NNE	8 NNE	9 NW	9 NW	10	8	8	6	8	8	8	...	Fog from 9.15 to 11.15 a.m. Very squally all day.
10	29.035	29.173	29.257	29.325	29.392	29.433			NW	10 WNW	10 W	9 WSW	8 W	7 W	7	8	8	8	8	7	...	Very squally weather, with heavy sea.	
11	29.432	29.414	29.383	29.320	29.388	29.465			W	7 W	6 W	7 W	7 SW	6 SW	6	8	8	8	8	8	8	...	Squally weather, with heavy sea.
12	29.526	29.606	29.683	29.679	29.754	29.757			SW	7 SW	7 SW	6 SW	4 SW	4 WNW	4	8	7	5	4	4	...	Squally weather.	
13	29.741	29.736	29.717	29.690	29.679	29.690		54	NW	4 S	1 NE	5 N	5 N	4 N	4	4	4	6	6	8	...	...	
14	29.625	29.530	29.458	29.396	29.423	29.511		45	NNE	5 NNE	6 NNE	4 NNW	4 SSW	6 SSW	6	10	10	10	10	10	8	...	...
15	29.640	29.724	29.809	29.853	29.919	29.928		44	SSW	5 SSW	5 SSW	5 SW	4 SW	2 SE	2	6	6	9	0	9	9	...	Clear blue sky E.N.E.; str. and cum. on horizon.
16	29.908	29.911	29.898	29.882	29.844	29.789		44	SE	2 SE	1 NE	1 NE	3 NNE	4 N	3	9	8	4	3	3	7	...	...
17	29.706	29.617	29.606	29.603	29.582	29.582		41	N	2 NNW	2 NE	3 NE	4 NE	4 N	3	6	5	8	2	5	5	...	...
18	29.570	29.568	29.568	29.590	29.600	29.602		43	NW	2 N	2 NE	3 NE	3 N	4 NE	5	5	7	7	5	8	8	...	2 a.m., large circle round moon. Ground sea from N.E. all day.
19	29.606	29.598	29.623	29.653	29.703	29.719		44	NE	4 NE	5 NE	5 NE	5 NE	5 NE	4	8	8	9	9	9	9	...	Ground sea from N.E. all day. Showery rain, mist nearly all day.
20	29.737	29.761	29.745	29.723	29.697	29.655		45	E	3 ESE	4 SE	5 ESE	3 SE	4 SE	3	8	9	10	10	10	10	...	Ground sea from S.E. all day.
21	29.587	29.522	29.457	29.388	29.386	29.352		41	SE	4 SE	5 SE	4 S	4 SSW	5 SSW	5	10	10	8	8	8	...	Ground sea from E. all day.	
22	29.339	29.345	29.376	29.410	29.423	29.393		45	SSW	4 S	3 SE	3 SSE	5 S	5 S	5	10	10	9	9	8	8	...	6.30 to 9.45 a.m., fog. 4 p.m., very heavy ground sea from S.E.
23	29.318	29.322	29.306	29.292	29.313	29.357		42	S	4 S	4 S	5 SW	5 SSW	5 SW	6	8	9	9	9	8	0.0	Heavy ground sea from N.E. all day.	
24	29.383	29.406	29.468	29.434	29.384	29.395		43	SW	6 WSW	5 SW	3 NW	5 NNW	4 NW	6	8	8	5	7	9	9	4.1	...
25	29.274	29.218	29.205	29.198	29.201	29.074		49	NW	4 NW	3 SW	2 SSW	2 NE	1 NE	2	7	5	3	5	10	10	7.8	...
26	29.115	29.274	29.326	29.361	29.478	29.573		47	WSW	5 WSW	6 W	4 W	6 W	7 WNW	5	6	6	7	5	8	3	6.5	Fast send from S.W. at 4 a.m.
27	29.504	29.638	29.590	29.418	29.276	29.086		43	W	5 NW	4 WNW	6 N	6 NW	4 NNE	5	3	6	5	7	9	9	8.9	...
28	28.925	28.805	28.776	28.836	28.949	29.040		51	NW	5 NW	5 NW	6 W	7 WNW	6 NW	6	10	10	7	7	5	2	7.4	...
29	29.150	29.231	29.316	29.374	29.434	29.474		45	W	5 W	6 WSW	4 S	2 NW	4 NW	4	7	7	6	7	6	7	6.6	...
30	29.448	29.405	29.310	29.335	29.384	29.449		47	N	4 NNE	4 NNE	5 NW	5 N	5 NW	5	7	7	8	8	8	8	5.2	...
31	29.550	29.590	29.638	29.680	29.736	29.746		46	W	3 SW	3 S	2 NE	1 S	1 NW	2	7	8	4	7	3	0	7.6	...
Means.	29.530	29.523	29.518	29.505	29.518	29.524	44.6	47.6	50.7	50.6	46.9	45.1	4.3	4.2	4.7	4.6	7.4	7.2	6.9	6.7	7.5	7.0	6.0

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun- shine.	Remarks.	
	4		8		4		8		4		8		4		8				
	in.	in.	in.	in.	°	°	°	°											
1	29.741	29.710	29.635	29.568	46.48	55.63	55.51		N	1	NE	3	N	5	NW	5	NW	3	hrs.
2	29.590	29.475	29.330	29.214	47.49	52.59	53.49		NW	3	N	5	N	5	NW	4	WNW	4	7.4
3	29.371	29.401	29.407	29.434	50.53	56.57	49.44		WNW	3	W	5	WSW	5	WSW	5	W	4	4.3
4	29.523	29.523	29.547	29.570	44.50	55.53	50.47		WNW	3	NW	3	SW	2	NE	3	NW	4	11.9
5	29.582	29.586	29.589	29.613	49.52	57.55	52.49		N	4	N	5	NNW	4	W	2	W	3	1.3
6	29.764	29.904	29.875	29.842	45.50	55.52	51.50		W	4	SW	3	NE	2	N	4	N	3	1.4
7	29.712	29.704	29.696	29.727	52.53	57.58	49.46		NNW	4	N	2	N	1	WSW	3	SSW	5	6.7
8	29.986	30.014	30.081	30.070	44.48	49.57	50.47		S	4	SW	4	SW	3	S	2	N	3	7.1
9	29.968	29.892	29.782	29.579	48.50	52.51	51.51		N	4	N	6	NNE	7	NNE	5	N	6	10.4
10	29.350	29.514	29.576	29.586	47.49	52.57	49.45		SW	7	SW	5	WSW	3	W	5	W	3	0.0
11	29.556	29.458	29.324	29.201	49.50	52.51	49.50		N	4	N	5	NNE	6	N	5	N	4	5.30 p.m., fog set in. 10.20 p.m., fog cleared.
12	28.917	28.907	29.070	29.125	46.49	55.47	43.40		W	4	W	5	WSW	4	WSW	4	WSW	5	9.6
13	29.210	29.265	29.268	29.221	41.47	51.49	49.46		NW	4	W	5	NW	6	NW	6	N	5	3.1
14	29.037	29.132	29.088	28.977	43.43	54.52	51.49		WSW	7	W	4	WNW	6	NW	8	NW	5	5.9
15	28.721	28.818	28.894	28.931	51.50	50.52	46.46		NNW	5	WNW	6	NW	7	NW	7	NW	5	8.3
16	29.146	29.181	29.148	29.097	45.51	52.48	45.43		W	4	WNW	4	NW	2	NW	2	SSW	4	Sea elephant ashore on sand beach.
17	29.220	29.317	29.364	29.402	41.46	46.45	43.43		WNW	4	WNW	5	WNW	6	SW	1	SW	4	11.2
18	29.450	29.458	29.409	29.343	39.44	46.45	45.44		W	3	WSW	3	NW	4	WNW	5	NW	4	6.4
19	29.097	29.101	29.149	29.219	44.44	46.43	41.39		WNW	3	WSW	4	WSW	7	SW	9	SW	8	3.7
20	29.437	29.408	29.397	29.394	37.37	38.38	39.38		SW	7	SW	6	SSW	7	SSW	7	SSW	6	3.6
21	29.473	29.421	29.287	29.210	38.36	42.51	45.42		WNW	3	NNE	2	NE	5	NW	3	W	5	5.2
22	29.409	29.440	29.452	29.437	40.45	51.54	47.45		W	4	NW	3	NW	4	NNW	6	NNW	3	5.7
23	29.503	29.447	29.331	29.248	47.49	49.52	49.48		N	4	NE	5	ENE	6	N	4	NNW	4	0.2
24	29.183	29.152	29.111	29.054	40.47	49.49	47.44		NW	3	W	2	NE	3	N	1	SW	3	5.4
25	28.973	29.003	29.065	29.129	43.43	44.43	42.41		WNW	4	SW	6	SW	6	SW	7	WSW	8	0.6
26	29.331	29.545	29.613	29.666	38.41	47.47	45.44		SW	9	SW	8	SW	7	SW	6	NNW	4	5.7
27	29.695	29.710	29.757	29.793	40.47	49.48	47.45		NW	4	W	5	SW	5	SW	5	WSW	5	7.1
28	29.753	29.726	29.720	29.728	44.48	51.53	48.46		NW	4	W	5	WNW	5	WSW	4	WNW	3	8.3
Means.	29.419	29.433	29.427	29.406	44.24	47.35	50.45	47.54	4.2		4.4		4.8		4.6		4.3		5.4

Days.	Barometer.						Air Temperature.				Wind.				Amount of Cloud.				Sun-shine.	Remarks.											
	8		Noon.		4		8		Midt.		4		Noon.		8		Midt.				4		8		N.		4		8		M.
	in.	in.	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	°		°	°	°	°	°	°	°	°	°	°	hrs.
1	29.685	29.549	29.601	29.565	29.580	29.576	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	2.3
2	29.516	29.519	29.511	29.505	29.462	29.417	49	53	57	53	48	47	NNW	5	NW	4	WNW	4	NW	4	WNW	3	W	3	10	7	8	6	3	6.5	
3	29.500	29.584	29.666	29.733	29.820	29.842	39	43	45	44	44	42	S	6	SE	7	SE	6	S	5	S	5	S	5	10	8	8	7	8	5	0.5
4	29.854	29.891	29.915	29.882	29.840	29.776	43	46	48	47	46	47	SSW	2	SW	2	SW	1	N	1	N	3	N	5	9	7	3	5	5	8	8.6
5	29.629	29.536	29.413	29.386	29.395	29.380	40	44	47	50	50	47	NNE	6	N	7	N	6	N	5	NNW	3	NNW	2	10	8	10	8	10	4	3.2
6	29.323	29.275	29.113	29.034	28.933	28.910	46	47	48	55	47	(44)	N	3	NE	2	NE	5	NNW	4	N	8	NNW	10	9	10	10	6	8	10	2.7
7	29.130	29.342	29.449	29.437	29.445	29.446	39	41	46	47	47	45	SW	8	WSW	7	W	7	WNW	6	NW	5	NW	5	9	7	7	5	7	5	6.2
8	29.409	29.402	29.390	29.342	29.283	29.154	46	48	55	56	49	51	NW	4	WNW	5	WNW	6	NW	6	N	6	NNW	5	8	5	6	6	6	8	7.2
9	29.108	29.139	29.172	29.235	29.320	29.346	43	47	50	50	46	44	W	6	W	7	NW	7	NW	8	W	7	W	7	7	5	6	6	5	3	9.5
10	29.438	29.493	29.460	29.343	29.244	29.279	44	46	54	55	49	45	WNW	6	WNW	5	WNW	5	NW	7	NW	5	NW	6	3	3	5	7	7	0	6.8
11	29.339	29.419	29.529	29.598	29.632	29.640	42	44	45	46	42	40	WSW	6	SW	7	SW	6	SW	5	SW	3	NW	2	5	7	7	4	5	5	8.0
12	29.566	29.488	29.430	29.378	29.369	29.471	44	44	45	45	44	44	N	3	N	3	NE	4	E	4	ESE	5	E	3	8	8	10	10	9	9	0.0
13	29.534	29.528	29.498	29.441	29.383	29.144	42	43	48	47	45	44	E	3	NE	4	NNE	5	N	5	N	5	NE	6	10	8	7	7	10	10	0.4
14	29.110	29.169	29.165	29.203	29.233	29.197	46	47	50	46	45	45	NW	4	W	5	W	7	W	6	WNW	6	NW	5	9	7	7	7	7	5	5.8
15	29.187	29.189	29.192	29.180	29.227	29.197	40	43	50	45	40	39	W	4	W	5	W	5	W	6	WSW	5	NW	4	7	5	6	7	8	5	6.4
16	29.110	29.100	29.119	29.186	29.273	29.349	40	44	46	45	44	43	WNW	4	WNW	3	SW	3	WSW	4	W	6	W	6	9	6	7	8	7	7	5.3
17	29.410	29.504	29.479	29.365	29.175	28.937	39	40	46	47	44	43	SW	7	SW	5	WNW	4	NW	5	N	7	NNW	7	8	7	6	9	10	7	5.0
18	28.890	28.915	28.861	28.671	28.715	28.855	47	48	52	51	48	44	NW	4	NW	5	NNE	3	NNW	6	WNW	5	WNW	7	0	5	7	9	4	3	3.6
19	28.967	29.084	29.013	29.030	29.038	29.340	40	43	50	50	47	45	NW	6	WNW	5	NW	8	NW	6	NW	5	S	1	4	0	3	3	3	7	10.4
20	29.042	29.103	29.174	29.266	29.294	29.327	45	46	48	48	42	41	NW	4	NW	5	NW	7	WNW	6	NW	5	NW	5	9	3	7	3	3	3	9.3
21	29.313	29.328	29.250	29.193	29.229	29.259	39	44	49	48	47	42	WNW	6	NNW	4	NNW	6	NW	7	NW	6	W	4	3	4	9	7	8	3	5.4
22	29.270	29.376	29.437	29.546	29.636	29.636	43	43	44	47	44	46	WNW	3	W	2	WSW	4	SW	5	NW	2	NW	3	8	8	9	5	6	5	5.4
23	29.576	29.508	29.415	29.245	29.053	29.010	43	49	53	50	48	46	NNW	4	NNW	4	NW	5	NNW	8	N	8	NW	6	8	5	7	8	10	4	5.0
24	29.122	29.302	29.379	29.388	29.371	29.303	47	46	50	49	46	46	NW	8	WNW	6	NW	5	NNW	4	N	5	NNE	5	8	9	9	4	0	0	5.8
25	29.272	29.136	29.230	29.197	29.206	29.287	42	45	54	50	47	43	NW	3	W	3	WNW	3	NNW	4	NW	4	NW	3	10	8	5	9	9	0	3.8
26	29.274	29.269	29.217	29.081	29.116	29.157	45	49	50	50	46	46	WNW	4	NNW	4	NW	5	NNW	6	NW	5	NNW	3	0	5	5	7	0	0	7.2
27	29.093	29.026	28.923	28.800	28.767	28.824	43	44	52	50	39	38	NNW	3	N	4	N	6	NNW	6	W	7	W	5	9	8	8	9	9	0	3.7
28	28.937	28.993	29.027	29.080	29.147	29.243	37	41	47	43	38	38	WNW	7	WNW	7	WNW	6	W	6	WNW	6	WSW	6	3	5	7	7	3	6	8.6
29	29.808	29.418	29.346	29.305	29.268	29.182	35	37	46	45	40	41	W	7	WNW	4	NW	4	NW	5	WNW	5	NNW	5	9	5	8	0	5	8.8	Midt., hail and sleet.
30	29.046	28.966	28.951	28.964	29.017	29.172	45	43	42	38	37	40	N	6	NW	6	WNW	7	WNW	5	W	6	W	8	8	8	7	8	7	5	8.8
31	29.358	29.439	29.483	29.433	29.408	29.482	35	39	47	46	45	44	W	5	WNW	5	WNW	5	NW	6	NW	6	W	5	9	4	8	9	5	7	3.6
Mean.	29.301	29.322	29.316	29.291	29.287	29.295	42.2	44.6	49.0	48.4	45.0	43.8	4.9	4.7	5.0	5.3	5.2	4.8	7.3	6.2	7.0	6.9	6.3	4.9	5.5	5.5	6.3	4.9	5.5	5.5	5.5

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun- shine.	Remarks.						
	4		8		4		8		4		8		4		8									
	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°								
1	29.598	29.690	29.862	29.934	29.956	29.874	42.44	46.48	45.45	WNW 6	WSW 7	WSW 3	NW 1	N 4	NNE 5	0	6	4	3	4	4	hrs. 8.0		
2	29.783	29.721	29.676	29.608	29.584	29.542	44.45	49.48	47.46	NE 5	NE 5	NE 4	N 5	N 4	N 4	9	9	10	8	7	0	0.0		
3	29.465	29.470	29.450	29.463	29.452	29.440	50.52	55.54	48.49	N 4	N 5	N 5	NNW 4	N 6	N 4	4	4	3	7	10	8	8.0		
4	29.415	29.456	29.584	29.663	29.806	29.887	47.47	49.48	45.41	N 3	SW 5	WSW 5	SW 5	NW 3	N 4	8	9	5	6	7	5	4.9		
5	29.925	29.929	29.896	29.856	29.836	29.789	37.40	48.48	45.44	NW 3	NW 4	NNW 6	NNW 6	NNW 5	N 5	0	3	5	4	0	0	9.1		
6	29.621	29.702	29.693	29.689	29.711	29.716	40.42	41.41	38.36	N 3	WNW 4	W 5	W 3	W 5	W 4	8	8	7	6	6	3	4.4		
7	29.680	29.693	29.692	29.676	29.687	29.769	33.36	44.44	40.38	WNW 4	NW 5	NW 6	NW 5	W 5	W 4	2	4	5	9	8	7	6.7		
8	29.810	29.840	29.800	29.763	29.704	29.633	34.35	46.44	44.44	WNW 3	W 4	NW 5	NNW 5	NNW 5	NW 4	7	5	6	7	7	8	5.2		
9	29.556	29.540	29.530	29.560	29.656	29.695	48.49	49.51	48.48	WNW 5	NW 5	NW 4	WNW 3	WNW 3	NW 4	8	9	10	9	9	9	0.0		
10	29.749	29.778	29.815	29.813	29.815	29.788	47.49	55.56	48.47	NW 3	NW 4	NW 3	N 3	N 4	NNW 4	7	6	3	5	6	9	9.4		
11	29.748	29.740	29.707	29.689	29.677	29.614	47.46	49.47	46.46	NNW 5	N 5	NNW 5	NW 4	NW 4	N 4	9	9	8	7	7	9	6.1		
12	29.540	29.510	29.611	29.591	29.642	29.685	46.45	47.48	46.41	N 4	NNW 4	W 4	SW 5	SW 5	SW 3	9	8	8	5	7	0	1.0		
13	29.687	29.669	29.644	29.619	29.699	29.710	39.42	49.46	40.38	NW 2	NW 3	W 4	WSW 5	W 3	NW 2	0	2	6	6	6	3	5.7		
14	29.711	29.775	29.780	29.812	29.931	29.957	40.42	46.46	41.40	WSW 6	W 5	WSW 7	WSW 7	W 4	W 4	7	7	7	7	6	5	4.2		
15	29.999	30.046	30.082	30.067	30.033	29.956	41.42	45.45	44.45	NW 3	NW 2	NW 1	N 3	N 4	N 5	7	4	4	7	4	4	6.3		
16	29.972	29.905	29.890	29.860	29.840	29.772	44.46	47.47	47.46	N 5	N 4	NNE 5	NNE 5	NNE 6	NNE 6	8	9	9	10	10	5	2.0		
17	29.727	29.597	29.510	29.497	29.503	29.506	47.46	47.48	46.45	NNE 6	NE 6	NNE 6	N 3	N 2	N 3	9	10	10	10	10	9	0.0		
18	29.540	29.565	29.616	29.673	29.736	29.772	44.45	46.44	44.42	NW 3	W 2	WSW 3	WSW 3	W 2	SSW 2	10	9	8	10	10	10	0.1		
19	29.803	29.843	29.915	29.940	29.979	29.999	44.44	43.40	39.39	SSW 2	SSW 2	SSW 2	SW 4	SW 5	SW 3	9	10	10	9	6	6	0.0		
20	30.004	30.018	29.993	29.973	29.941	29.862	38.37	41.40	39.38	W 4	WNW 3	WNW 2	Calm	0	NW 1	8	8	9	9	10	9	0.0		
21	29.736	29.630	29.552	29.486	29.416	29.336	41.44	46.46	45.45	NNW 4	NNW 5	N 5	N 6	N 6	NNE 6	9	8	9	9	10	10	0.7		
22	29.183	29.073	28.986	28.939	29.100	29.275	44.45	46.45	43.40	NNE 6	N 5	N 5	WSW 4	WSW 5	WNW 3	10	10	10	9	0	0	0.0		
23	29.358	29.339	29.244	29.035	28.800	28.677	42.46	48.46	46.46	NNW 4	N 5	N 6	NNE 7	NE 8	N 6	0	7	7	9	10	10	4.6		
24	28.847	28.915	28.844	28.785	28.968	29.157	40.41	44.37	35.34	NW 4	WNW 4	NW 5	WSW 9	W 3	NW 2	9	7	9	10	0	0	5.1		
25	29.236	29.363	29.494	29.602	29.700	29.743	35.33	35.34	34.35	SW 4	WSW 4	SW 6	WNW 5	NW 6	N 4	6	8	6	5	0	0	4.5		
26	29.686	29.630	29.611	29.639	29.703	29.735	34.36	42.43	41.38	NNW 4	NW 5	WNW 5	WNW 4	W 4	WNW 5	10	8	7	8	9	3	2.1		
27	29.799	29.873	29.938	29.946	29.931	29.915	39.38	45.44	42.41	WNW 5	W 4	W 4	WNW 5	NW 4	NW 4	0	3	3	6	7	5	7.9		
28	29.881	29.781	29.686	29.593	29.570	29.570	39.42	44.45	44.44	NW 4	NW 4	NW 5	W 5	WNW 4	WNW 6	9	9	7	8	7	7	0.1		
29	29.663	29.723	29.787	29.741	29.622	29.439	41.41	42.44	43.46	WSW 4	W 4	W 4	NNW 3	NNW 4	N 6	7	8	8	7	6	8	3.8		
30	29.255	29.157	29.036	28.920	28.844	28.803	45.46	47.47	47.47	NW 5	NW 3	N 2	NNW 3	NNW 7	WSW 10	10	10	10	10	6	6	0.0		
Means.	29.633	29.632	29.629	29.615	29.628	29.621	41.7	42.9	46.0	45.5	43.4	4.1	4.2	4.4	4.3	4.4	4.2	6.6	7.2	7.1	7.5	6.8	5.4	3.7

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun- shine.	Remarks.													
	4		8		Noon.		Midt.		4		8		Midt.		4				8		M										
	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°			°	°	°										
1	29.004	29.101	29.153	29.195	29.245	44	46	49	45	43	43	W	7	W	5	W	6	W	5	NNW	4	6	6	8	5	3	4	hrs. 5.9			
2	29.160	29.087	29.065	28.992	29.010	28.985	44	45	49	47	45	42	NW	5	NW	5	NNW	3	NNW	5	NW	3	NW	4	5	7	5	5	6.8		
3	28.953	28.949	28.953	28.923	28.931	28.923	38	38	42	40	37	36	NW	5	WNW	5	NW	4	WNW	3	W	3	W	4	10	9	9	5	4	0.5	
4	28.940	29.011	29.137	29.229	29.267	29.275	35	40	40	40	35	35	W	4	SSE	6	SSW	5	SW	3	W	4	W	4	10	9	8	5	3	4.0	
5	29.300	29.297	29.269	29.213	29.167	29.133	38	34	40	42	43	43	WNW	3	NW	1	NNE	3	N	4	N	4	NNW	4	4	7	9	9	4	4.2	
6	29.111	29.115	29.102	29.118	29.128	29.163	42	42	46	45	44	43	W	3	W	3	NW	4	NW	4	NW	3	NW	3	5	9	7	9	9	3.4	
7	29.181	29.215	29.218	29.245	29.305	29.419	41	42	46	41	40	40	WNW	4	NW	4	W	4	W	3	W	3	W	3	5	7	8	8	8	3.8	
8	29.531	29.667	29.753	29.807	29.809	29.747	42	41	42	41	41	42	SW	5	SW	5	SW	6	W	3	W	3	N	4	9	9	6	9	8	7	0.7
9	29.680	29.546	29.298	29.083	29.033	28.837	43	42	42	44	45	44	NE	5	NNE	5	NNE	6	NNE	5	N	4	NW	3	9	10	10	10	10	10	0.0
10	28.797	28.905	29.019	29.157	29.270	29.330	41	40	41	40	39	39	NW	6	SW	7	SW	8	SW	7	SW	6	W	5	10	10	10	8	7	0.0	
11	29.386	29.388	29.338	29.280	29.216	29.199	38	38	42	43	44	42	WNW	4	WNW	3	WNW	5	NW	6	NW	6	NNW	4	9	9	9	9	9	9	0.1
12	29.191	29.050	29.179	29.425	29.659	29.838	37	35	40	36	37	34	W	4	SW	8	SW	10	S	10	S	9	S	9	7	9	6	8	8	3.3	
13	29.994	30.126	30.210	30.322	30.377	30.380	35	35	35	34	34	33	S	7	S	6	S	4	S	4	S	2	NW	1	9	9	7	7	7	0.2	
14	30.401	30.352	30.317	30.232	30.177	30.140	30	33	39	40	41	42	NW	2	NW	3	NNW	5	NNW	6	NNW	7	NNW	6	3	3	7	8	8	10	1.9
15	30.022	29.960	29.870	29.63	29.900	29.927	42	44	46	43	40	40	N	6	N	5	NW	6	NW	1	WNW	2	NW	3	10	10	8	5	0	0.1	
16	29.937	29.923	29.873	30.070	30.151	30.156	37	41	42	41	40	40	NW	3	NW	3	WNW	7	WNW	5	WNW	4	WNW	4	3	7	8	6	3	0	4.1
17	30.214	30.220	30.193	30.171	30.141	30.113	38	38	44	44	41	40	NW	3	NW	4	NW	6	NW	5	NNW	6	NW	5	3	5	5	3	0	0	3.3
18	30.098	30.074	30.056	30.049	30.043	30.016	40	41	45	45	46	45	WNW	6	NNW	6	NW	6	NW	6	NW	6	NW	6	3	5	9	5	8	8	0.7
19	29.927	29.862	29.776	29.719	29.667	29.647	44	44	46	47	46	46	N	7	N	7	N	6	NNW	7	N	6	NNW	7	6	8	9	9	9	9	0.0
20	29.658	29.658	29.670	29.648	29.633	29.573	45	45	45	45	44	42	N	5	N	5	NNW	4	N	4	N	4	NNE	5	8	9	9	9	8	0.6	
21	29.481	29.475	29.561	29.666	29.781	29.827	43	46	47	44	40	40	NNE	6	NNW	5	WNW	5	WNW	4	WNW	4	WNW	3	8	8	4	4	0	5.4	
22	29.802	29.749	29.677	29.575	29.493	29.363	41	43	44	44	44	44	NNE	3	NNE	5	NNE	5	N	6	NNE	6	N	5	7	7	7	9	10	9	1.2
23	29.408	29.472	29.430	29.341	29.220	29.111	43	40	44	44	44	42	NNW	4	NW	1	NNW	3	N	4	N	5	N	2	0	2	3	3	3	7.6	
24	29.181	29.317	29.384	29.375	29.358	29.473	40	38	41	41	43	38	WNW	3	W	3	NW	4	NW	3	NW	4	NW	3	7	3	3	4	6	3	7.2
25	29.540	29.619	29.655	29.699	29.710	29.721	38	37	43	41	40	40	WNW	4	NW	3	NW	3	NW	3	NW	3	NW	1	0	7	7	6	5	5	0.7
26	29.744	29.776	29.815	29.846	29.874	29.882	37	37	40	40	36	36	NW	1	W	2	NW	1	Calm	0	NW	1	NW	1	5	6	8	5	3	2	1.1
27	29.880	29.882	29.865	29.868	29.890	29.890	37	37	42	40	41	41	NW	3	NW	3	NW	4	WNW	5	NW	5	WNW	6	3	3	6	7	5	4	4.2
28	30.002	30.080	30.070	30.059	30.104	30.132	38	37	44	43	40	41	NW	5	NW	4	NW	5	NW	5	NW	5	NW	4	3	2	5	7	4	3	5.1
29	30.186	30.232	30.252	30.278	30.285	30.296	38	40	43	41	39	40	WNW	3	W	1	W	1	NW	3	NW	4	NW	3	3	4	2	3	0	9	7.3
30	30.314	30.319	30.295	30.276	30.228	30.162	41	40	43	43	43	43	NW	3	N	5	NNE	5	NE	5	NE	6	NE	6	4	7	5	5	4	3	5.2
31	30.013	29.860	29.722	29.779	29.770	29.722	45	45	45	44	43	43	NE	6	NE	6	N	6	N	5	N	5	N	6	8	10	10	10	10	10	0.0
Means.	29.614	29.622	29.619	29.629	29.641	29.633	39.7	40.1	43.1	42.2	41.2	40.6	4.4	4.3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.6	6.6	7.0	6.9	6.1	5.5	2.9

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun-shine.	Remarks.														
	4		8		4		8		Noon.		4		8		Midt.																	
	in.	in.	in.	in.	°	°	°	°	°	°	°	°	4	8	N.	4			8	M												
1	29.567	29.344	29.303	29.293	45	45	47	47	44	43	N	5	NE	6	NE	7	NNE	5	NW	3	N	2	10	10	6	3	3	0.0	6 p.m., cock's eye round moon.			
2	29.326	29.383	29.543	29.668	44	41	37	37	39	41	N	5	NW	6	WNW	7	W	4	NW	6	NW	6	3	4	4	3	0	3	6.5			
3	29.740	29.763	29.750	29.695	40	40	44	42	41	41	W	5	NW	3	WNW	4	WNW	5	WNW	4	WNW	3	3	3	3	4	6	8	6.3			
4	29.740	29.763	29.753	29.787	40	37	43	40	35	35	NW	3	WNW	2	NW	2	W	3	W	3	W	3	5	8	8	7	3	3	2.8			
5	29.942	29.939	30.010	29.984	35	34	40	41	40	40	W	4	W	4	N	3	N	3	N	3	N	4	8	4	7	8	8	9	2.7			
6	29.878	29.827	29.771	29.729	42	43	42	41	41	41	NE	4	N	4	NNW	4	NNW	4	NNW	4	NNW	5	9	10	9	8	5	5	1.1	6.45 a.m., fog set in. 9.30 a.m., fog cleared. Midt., cock's eye round moon.		
7	29.581	29.521	29.461	29.396	41	42	44	43	42	42	N	4	NNE	5	NNE	4	NNE	4	NW	4	WNW	4	7	8	10	10	8	7	0.0			
8	29.417	29.383	29.253	29.145	41	41	43	43	42	41	NNW	4	N	1	NE	3	ENE	3	S	2	W	2	7	10	10	10	10	0.0		4 a.m., big circle round moon. Midt., heavy ground sea coming from N.E.		
9	29.079	29.257	29.327	29.407	42	38	41	41	40	41	SW	4	W	5	WNW	5	W	5	NW	4	NNW	4	10	8	8	8	8	8	0.7			
10	29.533	29.490	29.395	29.282	42	42	43	41	44	44	NNW	4	NNE	3	NE	3	NE	3	NE	3	N	3	9	10	10	10	10	0.0		Fog from 9 till 9.40 a.m. Fog from 1.30 till 6 p.m. Midt., heavy rain.		
11	29.063	29.299	29.425	29.425	43	41	40	41	42	42	W	4	SW	5	W	3	N	2	N	4	NNE	5	10	9	9	9	7	10	0.5			
12	29.067	29.031	29.041	29.057	44	44	43	44	41	44	N	4	NNW	4	NNW	5	NW	5	NW	5	NNW	5	10	5	7	5	8	8	4.8			
13	29.182	29.206	29.231	29.253	44	44	45	43	42	42	NW	3	NW	2	NNW	4	NNW	6	NW	3	NW	3	6	9	9	8	7	7	0.8			
14	29.542	29.649	29.693	29.724	39	37	37	37	38	37	SW	4	S	3	SSE	3	SE	2	E	3	E	2	10	6	9	8	8	9	1.0			
15	29.536	29.451	29.383	29.347	37	39	39	39	39	37	E	3	SE	3	SSE	3	S	3	S	2	SE	2	10	10	9	9	10	10	0.0		10.30 p.m., fog set in.	
16	29.480	29.542	29.610	29.685	37	36	38	37	33	33	S	5	S	3	S	4	S	2	W	2	ESE	4	8	6	5	5	4	7	5.4		1.15 a.m., fog cleared. 4 a.m., cock's eye round moon. 4 p.m., heavy ground sea coming from N.E.	
17	29.692	29.673	29.583	29.518	39	39	40	40	41	39	N	5	N	3	N	4	NNE	4	NNE	4	SW	1	8	5	9	9	10	10	0.5			
18	29.252	29.241	29.204	29.356	38	35	38	36	33	35	W	5	NW	5	W	7	WSW	7	W	5	WNW	4	5	4	9	7	0	0	3.7			
19	29.274	29.252	29.269	29.344	34	34	35	35	34	34	W	2	SSE	3	SSE	3	SSE	4	SSE	5	SSE	5	10	10	9	9	7	4	0.0			
20	29.735	29.819	29.907	29.957	33	33	33	30	31	32	S	4	S	3	W	5	W	4	WNW	4	WNW	5	4	8	8	4	0	1.4				
21	30.030	30.108	30.160	30.174	32	32	33	30	32	35	W	4	W	4	W	3	WNW	2	NW	2	NW	2	3	4	5	4	4	5	6.8			
22	30.022	29.920	29.797	29.677	36	37	38	38	38	38	NNW	4	N	4	N	5	N	5	NNE	6	NNE	8	5	6	7	8	7	5	1.4			
23	29.462	29.422	29.353	29.313	38	41	42	42	42	41	NNE	6	NE	6	NNE	6	NNE	6	NNE	6	NNE	5	7	8	8	8	9	0.1				
24	29.130	29.058	28.966	28.920	41	41	40	37	37	36	NE	5	NNE	4	NW	2	SW	7	SW	9	WSW	8	9	10	10	9	9	7	0.0		4 p.m., very heavy ground sea coming from N.E.	
25	28.993	29.018	29.046	29.074	33	32	32	32	31	35	SW	6	SW	4	W	3	WNW	3	WNW	2	SW	5	4	5	8	4	3	5	2.5			
26	29.306	29.404	29.441	29.476	35	35	35	34	34	34	SW	7	SW	6	W	6	WNW	5	WNW	3	WNW	3	7	5	4	6	4	0	5.0			
27	29.534	29.542	29.441	29.340	34	35	38	35	36	36	W	4	W	4	NW	5	NW	5	NW	5	NW	5	3	4	7	10	4	4	2.9			
28	29.480	29.486	29.601	29.625	34	35	38	38	36	38	WNW	4	WNW	4	NW	4	WNW	4	W	2	NNW	1	3	9	9	6	0	0	1.3			Midt., wind puffy and flying about.
29	29.630	29.627	29.623	29.623	40	40	41	41	42	43	NW	3	N	3	NNE	5	NNE	5	NNE	5	NNE	4	3	8	9	10	10	9	0.8			Midt., fog set in. 10.20 p.m., fog cleared.
30	29.625	29.627	29.628	29.631	43	42	43	42	40	40	WSW	2	NW	3	NW	2	N	2	N	3	NNE	4	6	9	9	9	10	10	0.0			
Means.	29.494	29.503	29.502	29.497	38.9	38.5	39.7	39.0	38.4	38.8	4.2	3.8	4.2	3.9	4.1	3.9	3.9	6.7	7.2	7.9	7.5	6.2	6.2	2.0	2.0	2.0	2.0	2.0				

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun- shine.	Remarks.													
	4	8	Noon.	4	8	Midt.	in.	in.	4	8	Noon.	4	8	Midt.	4	8			N.	4	8	M									
1	29.627	29.627	29.622	29.625	29.627	41	42	44	42	42	41	NNW	4	NNW	4	N	2	NE	3	N	3	NNW	2	9	9	5	3	0-0	Noon, fog bank E. on horizon.		
2	29.630	29.632	29.631	29.640	29.637	41	39	38	38	38	40	NW	3	NW	3	W	4	WNW	5	NW	6	WNW	6	10	10	6	4	2	8	4-4	
3	29.634	29.636	29.580	29.583	29.583	40	40	40	32	29	29	WNW	6	NW	6	W	4	W	4	W	3	W	4	8	10	6	10	3	8	0-4	
4	29.598	29.598	29.595	29.607	29.606	29	27	31	28	26	31	W	6	W	6	WSW	6	W	5	W	5	WNW	5	6	8	6	6	6	6	2-7	
5	29.599	29.606	29.580	29.589	29.583	26	25	35	35	36	35	W	4	W	3	NW	3	N	2	ENE	4	N	2	4	3	4	9	10	10	4-2	
6	29.590	29.588	29.588	29.590	29.593	34	38	37	37	35	34	WNW	3	S	6	SSE	7	SSE	7	S	6	S	4	9	10	10	9	8	0-0		
7	29.594	29.725	29.717	29.710	29.710	34	35	34	34	34	34	S	4	SW	4	W	3	W	3	WNW	4	NW	4	8	8	8	8	4	0-0		
8	29.728	29.725	29.715	29.715	29.715	34	35	37	37	39	40	NW	3	NW	3	NW	4	NNW	3	N	4	NNW	5	3	3	4	9	9	2-8		
9	29.715	29.717	29.702	29.702	29.715	39	39	43	41	40	41	NW	4	NW	4	NW	4	NNW	3	NW	3	N	3	5	5	6	4	2	5	3-6	
10	29.710	29.710	29.707	29.705	29.703	40	41	42	42	41	42	NNW	3	N	1	N	4	NNW	5	N	5	N	6	7	9	9	7	6	9	0-0	
11	29.720	29.701	29.693	29.704	29.709	42	44	46	43	41	40	N	1	N	5	NNW	6	NNW	4	NW	4	N	3	5	4	2	7	4	5	6-1	
12	29.709	29.707	29.639	29.628	29.425	42	42	44	43	(40)	38	NE	5	NE	6	N	4	N	6	N	11	WNW	8	8	10	7	8	9	9	1-1	
13	29.433	29.430	29.425	29.620	29.730	38	37	36	35	36	36	NW	5	NW	4	W	5	SW	6	SW	5	NW	4	8	5	6	9	5	8	2-2	
14	29.993	30.064	30.105	30.109	30.116	35	37	40	40	37	34	NW	5	WNW	4	NW	3	NW	3	NW	3	NW	2	9	6	3	8	3	2	4-2	
15	30.102	30.092	30.019	29.981	29.991	36	37	41	39	35	35	NW	3	NW	3	NW	4	NW	5	NW	3	NW	4	NW	3	2	3	6	3	2	3-6
16	29.959	29.945	29.917	29.902	29.905	34	37	39	37	37	38	NW	3	NW	3	NW	4	NW	3	NW	2	W	4	W	5	3	9	9	5	5	0-0
17	29.956	30.049	30.080	30.076	30.079	37	33	38	37	37	37	S	5	S	3	NE	1	NE	3	NE	5	NNE	5	4	4	8	6	8	9	2-7	
18	30.080	30.079	30.076	30.067	30.065	38	39	40	40	41	40	NNE	6	NNE	6	NE	6	NE	6	NE	6	NE	5	9	10	9	9	9	9	0-0	
19	29.959	29.959	29.956	29.905	29.888	41	41	41	40	40	38	NNE	4	NNE	3	N	2	N	3	N	4	N	4	10	10	9	8	9	10	0-7	
20	29.798	29.797	29.793	29.792	29.803	40	41	43	41	38	37	N	5	NNW	4	NW	4	W	1	W	1	N	2	4	9	9	6	3	0	1-3	
21	29.802	29.799	29.863	29.869	29.863	37	37	43	43	42	42	N	3	N	3	N	5	NNW	3	N	4	N	4	4	4	4	2	4	4	3	5-9
22	29.862	29.867	29.869	29.872	29.873	44	44	44	44	44	45	N	4	N	3	N	6	N	6	NNE	6	N	5	4	9	7	8	8	8	0-1	
23	29.873	29.878	29.878	29.867	29.872	42	43	42	41	39	36	N	4	N	3	SW	2	SSE	1	S	1	NW	1	9	10	9	8	4	4	0-0	
24	30.017	30.019	30.019	30.019	29.998	37	36	36	36	37	35	N	2	N	3	N	3	N	2	N	4	NNW	4	5	10	10	10	7	3	0-0	
25	30.007	30.012	29.992	29.989	29.996	34	33	40	39	36	35	NW	3	NW	3	NNW	3	W	4	SW	6	SW	6	6	4	7	8	8	9	2-7	
26	30.009	30.016	30.005	29.997	29.994	36	34	38	37	41	40	WSW	6	W	4	N	5	NNW	6	NW	6	NW	4	8	8	8	8	9	9	1-1	
27	29.883	29.786	29.666	29.602	29.584	41	41	44	41	38	37	NW	4	NW	4	WNW	5	W	6	NW	5	NW	4	10	10	7	8	5	4	2-8	
28	29.603	29.606	29.606	29.606	29.613	32	33	33	33	(32)	(32)	W	5	W	5	W	6	W	6	WSW	9	SW	9	6	6	7	8	8	6	3-1	
29	29.621	29.619	29.606	29.632	29.660	(31)	31	31	30	29	29	WSW	9	WSW	7	W	5	W	4	W	4	W	4	7	6	7	8	6	6	2-8	
30	29.663	29.660	29.677	29.726	29.794	28	29	30	29	30	30	W	4	WNW	5	SW	5	S	5	SSW	5	SW	4	6	8	6	10	8	8	3-6	
31	29.853	29.869	29.893	29.922	29.942	30	29	32	29	26	24	SW	5	SW	5	WSW	5	W	6	W	4	W	4	7	7	7	7	10	6	2-6	
Means.	29.785	29.789	29.781	29.786	29.786	36.4	36.7	38.8	37.5	36.6	36.3	4.2	4.2	4.1	4.0	4.2	4.0	4.6	4.2	4.5	7.3	6.8	7.5	6.3	6.3	2.1					

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun-shine.	Remarks.
	4	8	Noon.	4	8	N. 4	8 M.	Midt.	4	Noon.	8	Midt.	4	8	N. 4	8 M.		
1	29.986	30.015	30.028	30.044	30.048	31	35	38	WNW 4	W 3	WNW 2	N 3	NNE 4	NE 6	5	6	4.6	
2	29.983	29.896	29.866	29.866	29.850	41	41	41	NNE 6	NNE 6	N 5	N 3	NNW 2	NNW 3	10	10	0.0	
3	29.823	29.839	29.871	29.956	30.028	39	37	35	W 3	WNW 4	W 5	SW 5	S 4	SSW 5	10	7	1.2	Midt., cock's eye round moon.
4	30.148	30.222	30.273	30.278	30.322	35	35	33	SSW 3	SSW 3	SW 3	WSW 3	WSW 3	NW 3	8	9	0.0	"
5	30.334	30.332	30.325	30.218	30.178	32	33	37	W 3	WNW 4	WNW 4	NW 4	NNW 5	N 6	7	8	0.6	"
6	29.960	29.955	29.931	29.919	29.899	40	42	41	NW 6	NW 6	NW 5	NW 4	WNW 4	WNW 2	10	9	0.0	
7	29.920	29.926	29.918	29.864	29.782	39	39	41	N 1	N 2	N 2	N 2	NNE 3	NNE 3	9	9	1.5	
8	29.935	29.913	29.585	29.522	29.498	38	39	41	NNE 4	NNE 6	NNE 5	N 6	NNE 6	NNW 4	10	9	0.2	
9	29.443	29.446	29.453	29.450	29.446	38	35	39	W 5	WNW 4	NW 6	WNW 6	NW 5	WNW 4	7	2	6.4	Heavy ground sea from N.E.
10	29.453	29.453	29.427	29.435	29.441	31	31	36	W 3	W 3	W 3	NNW 3	N 2	N 1	2	3	4.7	
11	29.440	29.446	29.437	29.449	29.522	36	35	38	N 2	W 3	WSW 6	W 4	WNW 5	NW 4	8	9	5.6	
12	29.617	29.633	29.637	29.725	29.800	35	37	42	NNW 4	NW 4	W 4	W 4	W 3	NW 2	3	4	7.1	
13	29.931	30.018	30.071	30.149	30.167	35	36	44	NW 4	NW 4	NW 3	NW 4	WNW 5	N 5	0	2	8.8	
14	30.170	30.100	30.002	29.902	29.726	36	37	39	N 5	N 6	NNE 6	NNE 7	NNE 7	NE 6	8	8	0.0	
15	29.676	29.664	29.651	29.644	29.643	40	41	41	NNE 6	NNE 5	N 3	NNW 3	N 4	NNW 4	10	10	0.0	
16	29.615	29.634	29.621	29.617	29.630	38	39	39	NNW 4	NW 3	SW 3	SW 2	SW 2	W 4	7	3	5.5	Very heavy ground sea from N.E. all day.
17	29.707	29.798	29.845	29.852	29.863	36	36	44	W 4	NW 3	NW 4	NW 3	NW 5	NW 3	4	3	7.6	Heavy ground sea from N.E., working round to E. and calming down S.E.
18	29.905	29.908	29.896	29.905	29.903	37	37	45	NW 3	NW 3	NW 3	NW 3	W 3	W 4	6	7	5.2	
19	29.910	29.915	30.075	30.131	30.169	38	33	40	WSW 4	WSW 4	SW 4	SW 3	NW 1	N 2	7	8	7.3	
20	30.169	30.169	30.062	29.996	29.770	37	36	39	N 4	NE 4	NE 5	NE 6	NE 6	NE 6	8	10	2.0	
21	29.709	29.700	29.691	29.691	29.707	41	41	43	NNE 4	N 2	NW 3	WNW 2	W 2	NW 1	10	10	0.0	
22	29.690	29.687	29.650	29.619	29.600	37	38	40	N 3	NE 4	NE 4	NNE 2	NW 3	NW 2	8	9	0.0	
23	29.522	29.504	29.443	29.445	29.441	36	36	41	NW 4	NW 3	N 2	N 1	NW 5	WNW 4	8	5	5.9	8 a.m., fog bank N.E. Noon, fog bank N.
24	29.438	29.446	29.433	29.439	29.449	39	39	41	SW 9	SW 7	WSW 5	W 4	W 6	W 4	9	9	4.3	4 a.m., very heavy and sudden squalls with sleet.
25	29.563	29.620	29.582	29.612	29.608	37	37	45	NW 4	NNW 3	NNW 4	NNW 6	N 4	N 3	5	8	7.6	
26	29.613	29.611	29.588	29.597	29.590	39	40	44	N 2	NW 3	NNW 3	NW 5	W 5	NW 4	4	8	5.4	
27	29.512	29.610	29.600	29.610	29.612	34	34	32	W 6	WNW 5	NNW 3	SW 2	WNW 3	WNW 4	5	3	2.9	8 p.m., heavy passing snow.
28	29.613	29.612	29.593	29.596	29.612	34	34	37	W 4	W 4	W 4	W 4	W 5	W 5	3	2	8.6	8 p.m., cock's eye round moon.
29	29.611	29.618	29.667	29.726	29.758	34	34	35	WSW 6	SW 5	SW 6	SW 6	SW 4	W 3	6	10	3.8	
30	29.767	29.693	29.643	29.620	29.550	33	34	34	N 4	NNE 4	N 3	WNW 4	NW 4	SW 10	6	10	0.0	11 p.m., wind went round S.W. Heavy squalls. Snow.
31	29.457	29.464	29.466	29.574	29.617	31	31	31	SW 10	SW 9	SW 9	SSW 8	SW 7	WSW 5	10	8	3.1	
Means	29.752	29.760	29.753	29.756	29.754	36.1	36.1	38.5	4.3	4.2	4.1	3.9	4.1	3.9	6.8	7.0	3.5	

Days.	Barometer.						Air Temperature.				Wind.					Amount of Cloud.				Sun- shine.	Remarks.								
	4		8		Noon.		4		8		Noon.		4		8		Midt.		4			8		N. 4		8 M.			
	in.	in.	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	°			°	°	°	°	°	°		
1	29.620	29.621	29.622	29.601	29.460	29.455	30.34	36.35	33.33	W	3	NW	3	NW	5	NNW	3	S	2	SW	4	7	9	9	10	10	hrs. 0.0		
2	29.426	29.423	29.418	29.423	29.455	29.513	28.28	30.30	29.29	WSW	5	W	6	SW	9	SW	9	SW	8	SW	8	6	7	8	9	8	1.1		
3	29.589	29.617	29.610	29.631	29.755	29.866	30.32	34.35	35.35	WSW	6	SW	5	SW	4	SW	5	SW	5	SW	5	8	8	10	8	7	2.3		
4	29.955	30.047	30.119	30.198	30.258	30.300	34.35	38.37	36.34	WSW	4	WSW	5	WSW	6	WSW	6	WSW	5	W	4	8	9	6	7	7	7.5		
5	30.333	30.422	30.418	30.429	30.420	30.418	33.34	40.37	36.37	W	3	NW	3	NW	4	NW	4	NW	5	NNW	5	3	0	2	4	7	9.8		
6	30.323	30.283	30.255	30.235	30.253	30.251	39.41	43.41	40.40	NNW	4	NNW	5	NNW	6	NW	4	NW	4	N	3	8	8	9	10	10	2.6		
7	30.235	30.238	30.184	30.109	30.053	30.049	40.39	40.40	40.40	N	3	NNE	3	NNE	4	N	2	N	2	N	2	10	10	10	10	10	0.0	Fog from 3.30 to 9.30 p.m.	
8	30.013	30.009	29.988	29.969	29.888	29.840	40.39	40.39	39.39	NW	1	NW	1	N	1	NNW	2	NNE	4	NE	5	10	10	9	9	10	0.0		
9	29.752	29.750	29.736	29.747	29.747	29.747	40.41	41.39	38.38	N	3	NW	3	SW	4	SW	4	SW	5	SW	3	10	7	10	10	10	1.2		
10	29.834	29.868	29.857	29.865	29.851	29.776	35.34	38.36	37.39	W	3	NW	1	NNW	4	NNE	6	NE	7	NE	6	10	10	9	10	8	1.3	Fog from 7.40 to 9.30 a.m.	
11	29.708	29.686	29.620	29.620	29.613	29.615	40.41	40.40	39.38	N	6	N	5	NNW	2	W	4	W	3	W	5	9	10	10	4	2	0.0	Steady rain from 8 a.m. to 4 p.m.	
12	29.617	29.630	29.630	29.619	29.608	29.625	37.39	42.42	38.37	NNW	4	NW	5	NW	6	NW	5	NW	4	NW	3	2	7	6	3	0	6.1		
13	29.621	29.621	29.603	29.603	29.610	29.615	37.37	47.45	39.38	W	5	NNW	5	W	5	W	5	W	4	W	4	2	4	7	7	8	9.5		
14	29.630	29.633	29.615	29.621	29.633	29.625	37.39	44.41	38.40	NNW	4	W	5	W	6	W	2	N	2	NNE	5	3	5	6	8	7	9	8.6	
15	29.473	29.420	29.406	29.412	29.410	29.401	39.40	47.42	(40)	39	N	6	NW	4	WSW	6	W	6	W	9	W	7	10	10	8	9	4	2.0	8 p.m., temperature not taken ; too stormy.
16	29.417	29.425	29.419	29.445	29.473	29.608	38.42	41.40	36.36	NW	6	NNW	6	W	7	W	5	W	6	WNW	6	3	8	7	6	4	5	7.0	
17	29.631	29.797	29.862	29.866	29.860	29.867	38.36	41.40	39.35	W	5	W	3	NNW	3	NNW	3	NNW	3	NNW	2	4	6	8	9	9	10	1.1	
18	29.870	29.877	29.859	29.869	29.871	29.874	35.37	41.40	39.39	NW	2	NW	1	NW	1	NE	3	N	4	N	5	3	5	7	4	5	4.3		
19	29.865	29.859	29.860	29.814	29.758	29.688	38.40	42.41	40.40	N	5	N	3	N	3	N	4	N	4	N	2	9	10	9	9	10	1.4	Fog from 9 to 10.30 p.m.	
20	29.677	29.658	29.650	29.645	29.647	29.646	38.40	41.40	40.39	NNE	3	N	2	W	1	WSW	3	W	4	W	4	10	10	10	5	2	0.4	Fog from 7.45 a.m. to 10.30 a.m., then from 11.30 a.m. to 2.15 p.m.	
21	29.647	29.629	29.642	29.621	29.641	29.636	38.39	42.46	40.40	NW	3	NW	3	N	5	NW	5	NW	3	NW	3	4	8	8	4	3	5.7		
22	29.640	29.641	29.605	29.587	29.563	29.465	41.43	45.45	42.40	NNW	3	N	5	N	5	NNW	5	N	5	WNW	7	8	7	9	9	4	6	1.9	
23	29.439	29.439	29.430	29.506	29.743	29.833	38.40	41.41	39.37	NW	4	NW	5	W	7	W	7	W	4	W	3	4	8	6	2	2	3	10.1	
24	29.887	29.836	29.736	29.656	29.639	29.623	39.40	42.41	43.43	NE	3	NE	5	NE	7	NE	6	N	5	N	6	9	9	10	4	3	0.0		
25	29.569	29.560	29.547	29.554	29.558	29.561	41.44	47.44	40.38	N	6	NNW	6	NW	5	NNW	5	NNW	5	NNW	6	4	3	7	2	6	4	7.5	
26	29.570	29.575	29.588	29.616	29.681	29.681	35.39	41.42	39.40	NW	6	NNW	6	NNW	6	NNW	6	NNW	3	NNW	5	9	3	8	3	4	5	9.3	
27	29.679	29.673	29.663	29.645	29.637	29.647	39.42	47.45	40.34	NW	5	NW	3	N	3	NW	5	NW	4	W	6	7	9	3	7	2	4	5.5	4 p.m., fast scud from N.W.
28	29.653	29.657	29.651	29.653	29.653	29.653	36.39	45.41	38.40	NNW	6	NNW	6	NNW	7	NW	5	NW	3	N	4	2	4	5	5	7	4	9.8	8 p.m., cock's eye round moon.
29	29.651	29.645	29.619	29.600	29.612	29.620	40.42	47.54	41.40	N	5	N	4	N	5	W	6	W	3	W	3	8	9	8	2	0	0	5.3	Noon, fog bank N.
30	29.623	29.618	29.607	29.610	29.623	29.613	40.43	45.43	40.36	W	3	NW	1	N	1	SW	1	W	2	NNW	3	2	3	4	3	1	0	10.1	Midt., cock's eye round moon.
Means.	29.780	29.739	29.727	29.729	29.734	29.737	37.1	38.6	41.9	40.7	38.4	37.8	4.2	3.9	4.6	4.5	4.3	4.5	4.5	6.4	7.2	7.6	7.1	6.1	6.0	4.4			

Days.	Barometer.					Air Temperature.					Wind.					Amount of Cloud.				Sun- shine.	Remarks.							
	4		8		Noon.	4		8	Noon.	4		8	Midt.	4			8	M.										
	in.	in.	in.	in.		in.	in.			in.	in.			in.	in.													
1	29.621	29.668	29.738	29.791	29.850	29.873	37.40	44.43	39.39	°	°	°	°	°	°	°	°	°	°	hrs. 10.3								
2	29.891	29.893	29.877	29.883	29.887	29.882	36.38	41.43	42.41	WNW	1	NNE	3	N	3	N	2	SW	2	WSW	3	8 a.m., fog bank N.E. 2 p.m., passing fog from N.E. Fog from 1.30 to 3 p.m.						
3	29.888	29.885	29.875	29.872	29.879	29.885	39.41	42.43	41.40	NNE	3	N	3	N	3	SW	2	S	4	10	10	9	0.0					
4	29.899	29.959	29.910	29.953	29.956	29.937	40.40	41.40	39.37	S	4	S	3	S	2	SE	3	NNE	4	9	8	4	9	5.0				
5	29.789	29.699	29.643	29.635	29.635	29.639	37.39	38.41	38.36	NE	5	NNE	6	NNE	7	WNW	5	WSW	5	W	3	9	10	8	0.0			
6	29.652	29.633	29.624	29.629	29.629	29.635	35.40	44.43	41.40	W	3	NW	4	N	1	NNW	5	N	4	N	3	2	4	7	7.4			
7	29.640	29.627	29.615	29.623	29.633	29.638	36.40	44.40	36.35	WNW	4	NW	5	NW	6	W	5	W	5	W	4	3	4	8	3	4.5		
8	29.635	29.635	29.633	29.630	29.625	29.625	39.40	40.41	37.37	NNW	4	NW	6	W	6	W	6	WNW	5	NW	4	9	8	7	5	9	5.1	
9	29.503	29.450	29.430	29.428	29.437	29.442	39.41	43.42	41.41	WNW	5	NW	5	W	5	WSW	6	WSW	5	W	3	9	9	10	9	9	2.7	
10	29.441	29.444	29.440	29.404	29.413	29.419	40.41	41.37	35.33	WNW	3	NW	5	NNW	5	SW	7	WSW	7	W	4	9	9	10	10	9	5	0.1
11	29.417	29.411	29.398	29.398	29.406	29.438	33.35	37.39	39.37	W	3	NW	3	W	5	SSW	5	S	6	S	5	7	8	9	7	9	8	6.8
12	29.492	29.578	29.613	29.618	29.652	29.692	37.38	38.38	37.37	SW	4	SW	4	S	2	SSE	3	SE	2	SE	1	8	7	8	7	5	8	1.0
13	29.736	29.825	29.889	29.942	30.086	30.125	37.38	39.40	38.38	SE	2	S	1	SW	2	S	2	S	3	S	2	8	9	9	8	4	4	0.0
14	30.164	30.201	30.235	30.243	30.249	30.248	33.40	43.42	39.35	W	2	W	2	SW	1	NE	1	N	3	NW	2	3	4	4	3	3	0	8.9
15	30.240	30.237	30.217	30.116	30.082	30.070	39.40	41.40	40.39	S	3	S	3	SSE	3	SSW	4	S	5	S	5	4	9	8	7	8	8	5.4
16	30.034	30.053	29.996	29.974	29.978	29.981	38.39	42.41	40.39	S	3	SSW	3	WSW	3	WSW	1	NW	3	WNW	3	9	9	9	9	9	9	1.6
17	29.976	29.967	29.960	29.962	29.979	29.974	39.41	45.43	42.37	W	3	W	3	W	3	NNE	3	N	2	NW	2	7	7	5	8	7	8	4.5
18	29.971	29.978	29.968	29.965	29.974	29.975	40.42	45.47	41.40	NW	3	NW	5	NW	4	NNW	4	W	1	SW	2	9	10	9	7	5	5	1.9
19	29.979	29.970	29.962	29.959	29.968	29.966	36.40	41.40	40.40	W	2	W	2	NE	1	NE	3	NE	3	NNE	2	3	6	4	8	9	9	6.9
20	29.969	29.977	29.966	29.995	30.088	30.122	40.42	44.43	41.39	ESE	2	ESE	3	SW	3	SSW	4	SE	3	SSE	3	8	7	8	4	8	6	4.7
21	30.126	30.118	30.124	30.136	30.142	30.147	38.41	41.40	39.37	SE	3	SE	3	ESE	4	ESE	4	ESE	3	SE	2	8	7	8	8	7	4	1.3
22	30.137	30.139	30.123	30.119	30.128	30.134	33.40	44.44	41.40	WNW	2	WNW	1	W	1	WSW	5	SW	6	SW	6	7	7	8	7	7	8	5.3
23	30.134	30.125	30.085	29.954	29.886	29.719	39.42	44.46	44.40	SW	4	NW	5	NW	6	NW	7	NW	6	NW	6	6	4	4	8	8	8	7.1
24	29.679	29.656	29.646	29.642	29.651	29.657	43.48	47.49	43.40	NW	5	NW	5	W	6	W	7	WNW	5	NW	4	9	9	10	7	0	3	2.2
25	29.658	29.651	29.613	29.585	29.591	29.589	41.43	44.55	45.41	NW	2	NNE	4	NNE	6	NW	5	W	4	W	5	9	9	9	4	5	3	2.3
26	29.601	29.616	29.647	29.747	29.919	30.027	42.45	47.45	42.41	NNW	5	N	1	NE	3	SW	4	W	3	N	2	9	8	7	3	0	0	5.5
27	30.087	30.153	30.183	30.189	30.190	30.095	37.45	46.45	44.44	N	2	NNE	2	NNE	4	NNE	5	NNE	5	NNE	6	2	0	3	7	9	9	11.4
28	30.061	29.959	29.917	29.887	29.903	29.920	44.45	51.54	46.45	NNE	6	NNE	6	NNW	6	NW	6	NW	4	NW	3	8	8	0	3	2	0	8.6
29	29.923	29.903	29.900	29.906	29.919	30.070	43.50	56.53	49.43	NNW	2	N	4	N	5	NW	5	W	3	W	4	2	0	3	4	4	0	10.8
30	30.162	30.293	30.320	30.320	30.326	30.218	40.45	48.45	43.42	W	4	WSW	2	N	2	NNE	4	NNE	4	NNW	5	2	2	4	5	7	7	11.8
31	30.130	29.985	29.789	29.585	29.644	29.665	42.45	48.45	45.41	N	3	NNE	6	N	7	W	3	W	5	W	5	4	4	4	7	6	4	10.1
Means.	29.859	29.861	29.850	29.845	29.862	29.865	38.54	44.53	43.50	39.22	3.2	3.6	3.8	4.3	3.8	3.5	6.4	6.5	6.7	6.7	6.4	5.9	5.1					

Days.	Barometer.					Air Temperature.					Wind.					Amount of Cloud.					Sun- shine.	Remarks.
	4		8		Midt.	4		8		Noon.	4		8	Midt.	4		8		M.			
	in.	°	in.	°		in.	°	in.	°		in.	°			in.	°						
1	29.662	29.659	29.665	29.685	29.824	38.40	38.40	40.40	37.39	WSW 6	SW 8	SW 8	SW 7	WSW 5	8	7	9	8	8	hrs. 2.2		
2	29.935	30.030	30.111	30.135	30.215	36.41	44.44	44.44	41.36	W 3	WSW 4	SW 4	N 1	NW 1	3	7	4	4	6	3	8.3	
3	30.303	30.333	30.320	30.322	30.330	36.45	53.47	42.40	42.40	NW 3	NW 5	NW 5	NNW 4	NNW 4	0	3	7	7	7	0	7.9	
4	30.342	30.324	30.305	30.319	30.336	39.45	50.49	45.42	45.42	NW 4	NW 5	NW 6	NW 6	NW 5	4	5	7	6	4	5	11.1	
5	30.336	30.336	30.320	30.310	30.316	43.45	53.56	45.43	45.43	NW 5	NW 5	NW 6	NW 5	NW 6	6	8	8	7	6	4	5.9	
6	30.334	30.320	30.306	30.212	30.180	43.47	51.51	45.44	45.44	NW 5	NW 6	NW 6	NW 7	N 6	3	4	5	7	4	4	11.2	
7	30.107	30.106	30.082	29.983	29.930	44.48	49.47	45.44	45.44	NNW 6	NNW 6	NNW 8	N 8	NNE 6	6	6	8	8	8	6	4.5	
8	29.390	29.826	29.813	29.816	29.825	43.44	49.47	43.41	43.41	N 6	N 5	NW 4	NNW 4	SW 6	6	5	4	4	6	6	0.5	
9	29.331	29.830	29.824	29.820	29.817	41.42	45.45	45.45	45.45	W 6	W 5	SW 2	NNE 3	NNE 3	5	6	5	2	3	5	8.4	
10	29.700	29.700	29.690	29.685	29.702	45.44	44.45	42.41	42.41	NW 2	SW 5	SW 3	NE 1	N 2	4	8	8	9	8	4	2.7	
11	29.700	29.697	29.687	29.685	29.701	41.44	49.48	43.42	43.42	NW 4	NNW 6	NNW 6	W 5	W 4	3	8	7	4	3	4	8.0	
12	29.696	29.683	29.672	29.669	29.677	44.50	51.49	48.47	48.47	NW 5	NW 5	NNW 6	NW 3	W 4	5	9	7	9	8	9	0.9	
13	29.688	29.677	29.673	29.676	29.653	48.49	53.51	48.49	48.49	W 4	W 2	N 1	NNW 4	N 5	7	9	2	2	5	8	11.9	
14	29.572	29.565	29.567	29.565	29.639	45.47	48.50	43.42	43.42	W 7	WSW 8	W 7	NNW 6	NNW 4	5	8	6	3	4	3	10.4	
15	29.650	29.661	29.756	29.822	29.860	44.49	50.46	48.45	48.45	NNW 5	W 4	NE 1	SW 1	NW 2	4	4	4	3	3	0	12.2	
16	29.886	29.872	29.859	29.856	29.738	47.49	50.50	48.48	48.48	NNW 5	N 5	N 6	N 6	N 4	5	4	7	7	9	9	8.9	
17	29.719	29.718	29.773	29.893	30.101	50.49	46.44	43.41	43.41	W 5	NNW 5	WSW 6	SW 6	SSE 5	4	9	7	9	7	5	6.1	
18	30.118	30.180	30.204	30.210	30.211	41.42	42.43	42.41	42.41	E 3	E 4	E 4	E 5	NE 5	5	7	5	3	2	5	11.2	
19	30.214	30.147	30.076	29.999	29.922	42.43	45.45	45.45	45.45	NE 5	NE 6	NE 7	NE 6	NE 6	5	10	10	10	10	10	0.0	
20	29.808	29.746	29.663	29.613	29.616	45.45	45.45	45.45	45.45	N 4	N 3	NNE 4	NNE 4	NW 5	4	10	10	10	3	2	0.0	
21	29.626	29.602	29.573	29.572	29.598	47.50	55.53	46.42	46.42	NNW 3	NNW 4	NNW 6	NNW 5	NW 4	4	6	4	5	8	4	7.2	
22	29.601	29.577	29.573	29.570	29.587	43.51	55.49	47.46	47.46	NW 3	N 5	NW 6	NW 5	N 4	1	0	0	4	5	7	12.4	
23	29.593	29.557	29.580	29.584	29.590	44.52	51.51	44.44	44.44	NW 1	N 1	W 3	W 6	NW 5	5	8	9	8	4	3	4.7	
24	29.584	29.578	29.573	29.579	29.587	45.48	49.44	42.42	42.42	N 3	N 3	NE 2	W 2	SSW 3	2	8	9	10	10	9	0.0	
25	29.451	29.446	29.443	29.439	29.452	42.43	42.44	42.37	42.37	S 4	SSW 6	SW 5	WSW 4	NW 3	5	9	8	4	8	5	8.4	
26	29.443	29.435	29.439	29.433	29.445	37.41	42.43	41.40	41.40	SW 4	SW 5	WSW 6	WSW 5	W 4	3	8	7	5	8	9	6.8	
27	29.458	29.447	29.441	29.436	29.443	41.45	46.49	46.43	46.43	NW 4	N 6	NNE 6	NNW 5	W 3	3	9	9	10	9	8	0.3	
28	29.451	29.442	29.432	29.441	29.445	43.44	45.45	44.45	44.45	W 3	WSW 3	SW 3	WSW 3	NNW 3	3	9	7	9	8	4	1.8	
29	29.447	29.441	29.427	29.437	29.441	45.49	51.47	43.41	43.41	N 4	NW 4	NW 5	NNW 6	W 6	6	9	9	9	9	7	4.0	
30	29.436	29.440	29.440	29.442	29.446	41.45	46.46	44.42	44.42	W 5	W 5	WSW 6	SW 4	SW 3	3	8	8	7	5	6	6.0	
Means.	29.786	29.780	29.775	29.775	29.789	42.8	48.0	47.1	47.1	4.2	4.8	4.9	4.6	4.3	4.4	6.8	6.4	6.7	6.5	5.9	5.3	6.1

Days.	Barometer.					Air Temperature.					Wind.					Amount of Cloud.				Sun- shine.	Remarks.											
	4	8	Noon.	4	8	Midt.	in.	in.	in.	4	8	N.	4	8	Midt.	4	8	N.	4			8	M.									
1	29.453	29.444	29.442	29.447	29.443	29.448	in.	42 41	42 40	38 37	SSW	4	S	4	SW	5	SW	4	S	5	7	8	6	5	7	8	9.3	hrs.				
2	29.466	29.442	29.433	29.426	29.445	29.448	34 39	40 41	41 42	SSW	4	SSW	4	SW	4	SW	3	E	2	NE	3	NE	4	8	7	6	8	7	9	10.3		
3	29.444	29.441	29.425	29.403	29.395	29.405	41 45	45 44	41 42	NE	4	NE	4	NE	5	NE	6	NE	6	E	5	9	9	9	10	10	10	10	10	11		
4	29.405	29.405	29.388	29.396	29.443	29.606	42 43	43 43	42 40	E	5	E	4	E	3	SW	3	WSW	5	WSW	5	10	10	10	10	8	6	1.4	Midt., heavy ground sea from N.E.			
5	29.636	29.641	29.649	29.643	29.645	29.633	41 47	46 49	46 46	WSW	4	WNW	4	NW	5	NNW	5	NNW	6	NE	6	7	7	9	7	9	9	7.7				
6	29.627	29.620	29.627	29.625	29.626	29.632	44 46	46 46	43 44	NW	2	SW	3	SW	7	WSW	6	W	3	NNW	4	10	8	6	3	9	8.5					
7	29.634	29.629	29.618	29.627	29.632	29.633	46 49	50 50	47 42	N	4	NW	5	W	6	WSW	3	WSW	2	NW	3	9	9	9	5	5	7	1.7	Midt., cock's eye round moon.			
8	29.633	29.628	29.611	29.610	29.613	29.612	42 47	52 54	50 45	NW	2	N	3	N	6	NW	6	NW	6	WSW	5	9	9	7	9	8	5	2.7	"	"		
9	29.623	29.623	29.623	29.623	29.620	29.634	41 46	43 44	44 (44)	W	6	W	8	WSW	9	SW	10	SW	10	SW	10	7	8	8	8	8	8	9.6	"	"	"	
10	29.662	29.769	29.835	29.836	29.842	29.754	44 46	47 49	49 45	WSW	9	WSW	7	WSW	4	WSW	3	W	3	N	5	8	6	6	7	9	9	11.3				
11	29.661	29.644	29.636	29.646	29.639	29.811	47 50	51 47	45 44	NNW	5	W	7	W	9	WSW	8	WSW	6	NW	4	9	7	9	7	4	7	6.3				
12	29.813	29.815	29.714	29.675	29.663	29.658	45 46	50 51	50 45	N	3	NNE	6	NNE	7	NNW	6	NW	6	W	5	9	8	6	5	4	3	6.1	4 p.m., fast scud from N.W.			
13	29.674	29.857	30.030	30.151	30.253	30.326	44 49	48 48	45 39	W	5	W	7	W	7	W	6	SW	5	W	1	0	2	2	0	2	2	12.3				
14	30.334	30.332	30.316	30.326	30.320	30.223	41 45	49 45	45 47	N	2	NE	4	NE	5	NNE	6	NNE	6	NNE	6	2	3	7	7	3	10	9.6				
15	30.184	30.130	30.091	30.048	29.984	29.952	47 51	53 51	50 49	NE	6	NNE	6	NNE	6	N	7	N	7	NE	7	10	6	6	9	10	10	2.7	Fog from 3 to 6.30 a.m.			
16	29.955	29.963	30.100	30.148	30.189	30.196	49 45	46 45	43 42	NW	4	SSW	4	S	5	SE	3	SE	3	SE	3	10	9	9	9	6	3	0.9	8 p.m., fast scud from S.E.			
17	30.201	30.185	30.177	30.161	30.143	30.129	41 46	46 47	46 45	E	4	E	4	NE	4	NNE	4	NNW	6	NNW	6	5	7	9	8	5	3	5.0				
18	30.096	30.011	29.945	29.905	29.872	29.794	46 49	51 51	48 47	N	3	N	5	N	6	NNW	4	NNW	4	N	3	9	7	7	8	9	9	3.4				
19	29.730	29.677	29.634	29.627	29.631	29.610	49 49	52 52	49 50	NNW	5	NNE	6	NNE	6	NNW	2	N	4	W	3	10	10	10	9	10	10	1.5	Midt., heavy rain.			
20	29.607	29.598	29.598	29.586	29.595	29.603	45 44	45 46	43 42	SW	5	S	5	SW	5	WSW	5	NW	5	W	4	10	8	9	7	7	5	1.0	4 a.m., heavy rain.			
21	29.603	29.602	29.598	29.598	29.597	29.605	41 44	46 45	45 43	WNW	5	WNW	6	W	6	W	5	NW	5	NNW	6	8	6	8	6	3	1	7.4	Midt., ground sea from N.E.			
22	29.603	29.584	29.599	29.591	29.601	29.612	44 50	51 55	48 45	NW	5	NW	6	NW	6	NW	5	W	4	NW	3	5	6	6	5	4	3	11.2				
23	29.621	29.616	29.601	29.602	29.608	29.612	44 50	56 54	49 47	NW	4	NW	5	NW	6	NW	6	NW	5	NW	5	4	5	6	6	5	5	7.0				
24	29.613	29.605	29.600	29.603	29.606	29.618	45 54	51 51	50 42	NW	3	NW	5	WNW	6	SE	2	W	1	NW	2	3	5	6	2	1	2	12.9				
25	29.629	29.612	29.607	29.612	29.610	29.612	41 50	47 48	50 49	WNW	1	N	1	NE	4	NE	5	NNW	5	NW	5	2	7	10	10	10	2	5.5				
26	29.614	29.612	29.593	29.609	29.608	29.606	47 52	53 47	46 45	NW	3	NW	4	WNW	5	W	6	WSW	7	SW	6	5	7	8	9	7	6	4.0	Midt., squally weather.			
27	29.623	29.618	26.611	29.697	29.739	29.752	43 50	52 48	48 45	W	3	W	5	WSW	4	WSW	2	W	4	NW	4	5	8	7	8	7	3	6.0	4 p.m., heavy showers.			
28	29.751	29.744	29.729	29.728	29.743	29.759	46 50	56 57	51 46	W	3	NW	3	NW	6	NW	5	NW	3	NW	2	9	8	6	7	7	3	4.7				
29	29.761	29.830	29.866	29.910	29.926	29.938	47 57	60 53	50 48	NW	4	NW	4	NW	5	N	4	NNE	2	NE	5	7	7	7	7	6	10	8.9				
30	29.940	29.935	29.916	29.916	29.922	29.932	47 49	54 55	53 50	N	2	NNE	5	NNE	6	N	6	N	6	N	5	10	10	8	7	5	9	8.3	Fog from 6 to 9.15 a.m.			
31	29.928	29.925	29.909	29.835	29.835	29.832	51 51	51 52	51 50	NNE	5	NNE	5	NNE	5	N	4	NNW	3	WNW	2	10	10	10	10	10	8	0.0	Fog from 3.40 to 5.30 p.m.			
Means.	29.727	29.727	29.726	29.729	29.737	29.741	44.1	47.7	49.4	48.6	46.6	44.7	4.0	4.3	5.5	4.8	4.7	4.5	7.3	7.3	7.5	7.1	6.4	6.3	6.7	6.7						

METEOROLOGICAL OBSERVATIONS.

CAPE PEMBROKE, FALKLAND ISLANDS.

LATITUDE $51^{\circ} 41'$ S. LONGITUDE $57^{\circ} 42'$ W.

1904.

BAROMETER READINGS CORRECTED AND REDUCED TO
32° F. AND MEAN SEA LEVEL.

WIND DIRECTION TRUE. FORCE BY BEAUFORT SCALE.

CLOUD AMOUNT = 0 to 10.

Days.	Barometer.					Air Temperature.				Wind.				Amount of Cloud.				Sun-shine.	Remarks.
	4	8	Noon.	4	8	Midt.	4	8	Noon.	4	8	Midt.	4	8	N.	4	8		
	in.	in.	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	°		
1	29.835	29.820	29.770	29.708	29.641	29.439	49	54	50	51	50	50	°	°	°	°	°	hrs.	10.30 to 11.30 a.m., sudden squall; force 5-6. Fog from 10.30 a.m. to 2 p.m., and from 6.50 to 10.30 p.m. Too stormy to take p.m. temperatures.
2	29.431	28.795	28.452	28.354	28.701	28.980	51	52	50	51	(49)	(45)	NNE	6	NNE	6	9	6.5	
3	29.149	29.247	29.252	29.149	29.248	29.326	42	47	46	49	46	43	WSW	6	WSW	6	4	1.1	
4	29.329	29.342	29.392	29.422	29.448	29.481	44	49	49	46	48	42	WNW	4	W	5	5	3.3	
5	29.487	29.560	29.639	29.680	29.701	29.722	42	44	48	46	45	44	SW	5	SW	6	5	8.8	
6	29.751	29.781	29.821	29.866	29.906	29.910	44	46	47	46	44	46	WSW	4	SW	4	7	8.9	
7	29.905	29.927	29.906	29.864	29.874	29.887	47	52	53	56	56	52	NNE	3	NW	3	9	11.2	
8	29.857	29.700	29.579	29.615	29.685	29.654	50	51	55	56	53	48	N	3	N	6	7	2.2	
9	29.546	29.454	29.415	29.452	29.594	29.748	49	53	53	61	51	46	NE	5	N	5	10	2.6	2 a.m., cock's eye round moon. 10.15 p.m., fog set in. 6.30 a.m., fog cleared; thunder and lightning.
10	29.892	29.936	29.956	29.926	29.892	29.823	44	55	61	58	52	51	WNW	3	NW	4	2	3.0	
11	29.771	29.702	29.592	29.630	29.578	29.634	50	52	54	53	52	47	NNW	5	NNW	5	7	12.0	
12	29.669	29.717	29.735	29.694	29.652	29.600	44	47	49	49	48	49	W	4	SW	3	9	3.3	
13	29.584	29.556	29.469	29.843	29.375	29.476	49	53	53	55	53	48	NW	3	NW	2	6	0.3	
14	29.514	29.581	29.690	29.800	29.879	29.913	50	48	48	46	45	43	W	5	W	6	1	5.4	
15	29.910	29.899	29.859	29.781	29.641	29.526	40	46	48	48	49	50	WSW	4	WSW	3	2	2.5	
16	29.479	29.392	29.288	29.151	29.223	29.318	51	51	51	54	55	51	NW	1	NNE	3	10	0.6	Fog from 8.20 to 10 a.m., and from 2.15 to 3.50 p.m.
17	29.402	29.414	29.410	29.391	29.448	29.485	49	50	56	56	49	45	W	3	N	3	5	3.7	
18	29.514	29.525	29.525	29.525	29.556	29.598	46	50	51	50	47	46	WNW	4	W	6	5	8.5	
19	29.609	29.655	29.650	29.647	29.612	29.506	44	50	53	51	52	49	SW	4	WSW	4	4	5.8	
20	29.483	29.384	29.194	29.114	29.115	29.087	51	51	51	53	51	48	N	4	NNE	5	10	0.7	Fog from 6.45 to 8.30 and 11.30 a.m. to 2.40 p.m.
21	29.020	29.060	29.142	29.200	29.227	29.187	47	52	52	51	48	47	SW	5	SW	5	7	7.3	
22	29.168	29.215	29.216	29.139	29.021	29.995	46	49	56	51	52	(49)	WNW	5	W	4	7	5.2	
23	29.042	29.201	29.285	29.336	29.401	29.456	46	51	52	50	47	45	W	8	W	6	4	8.6	
24	29.489	29.536	29.599	29.640	29.636	29.537	43	48	50	49	47	48	WNW	3	W	5	4	7.1	
25	29.432	29.361	29.395	29.468	29.534	29.595	47	49	44	47	44	43	W	5	W	6	8	8.2	
26	29.629	29.672	29.757	29.836	29.885	29.866	42	45	46	47	46	46	SW	4	SW	5	8	9.9	
27	29.837	29.824	29.796	29.839	29.875	29.941	46	55	51	50	47	46	WNW	4	W	3	9	0.7	
28	29.959	29.953	29.902	29.859	29.806	29.793	43	50	55	56	54	53	W	3	NNW	3	6	3.3	
29	29.749	29.765	29.781	29.767	29.728	29.690	52	59	56	56	50	52	NW	3	SW	2	7	10.3	Fog from 10.15 a.m. to 9 p.m., with short interval.
30	29.697	29.725	29.778	29.819	29.850	29.852	44	48	53	52	49	49	NW	3	SW	4	9	5.4	
31	29.841	29.853	29.870	29.860	29.858	29.798	47	52	52	55	54	54	W	4	W	3	9	2.9	
Means.	29.580	29.566	29.552	29.561	29.567	29.575	46.4	50.3	51.4	51.6	49.5	47.6	4.1	4.5	4.4	4.5	4.8	5.2	

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun- shine.	Remarks.				
	4	8	Noon.	4	8	N.	4	8 M.	Midt.	4	8	Noon.	4	8	N.	4			8 M.			
1	in. 29.794	29.770	29.672	29.529	in. 29.500	° 54 68	° 70 63	° 56 52	WNW 4	WNW 5	NNW 6	NNW 6	WSW 2	W 1	3	4	2	6	5	7	hrs. 12.1	
2	29.498	29.496	29.502	29.475	29.413	51 57	60 55	52 51	Calm	0	NNE 1	E 3	NNE 4	NNE 5	4	2	3	7	9	9	11.1	
3	29.286	29.253	29.261	29.313	29.394	53 57	53 52	49 44	NNW 3	NW 2	W 4	WSW 4	WNW 4	WNW 4	9	9	9	9	4	7	0.0	8 a.m., passing fog. Midt., sheet lightning N.W.
4	29.477	29.609	29.636	29.652	29.665	46 52	57 58	51 50	W 5	W 6	NW 6	NW 6	N 4	N 5	8	7	7	4	5	7	10.3	
5	29.533	29.407	29.345	29.328	29.346	51 52	61 57	53 49	NNW 6	N 6	NW 6	NW 3	NW 4	NW 4	8	7	7	10	9	1	3.4	
6	29.436	29.485	29.489	29.466	29.503	49 54	57 58	52 47	NW 5	NW 4	NE 1	NNW 4	SW 3	NW 2	6	8	7	7	4	1	8.3	
7	29.593	29.632	29.631	29.676	29.712	46 53	57 53	49 46	NW 3	NW 4	WSW 4	SW 2	W 4	W 4	2	4	4	7	4	2	6.7	
8	29.509	29.853	29.860	29.865	29.872	45 52	58 53	52 49	W 3	W 4	W 5	ESE 1	NW 5	NNW 4	3	4	7	8	4	2	9.1	Midt., cock's eye round moon.
9	29.790	29.764	29.750	29.795	29.872	51 57	62 60	53 51	NW 5	WNW 6	NW 6	NW 5	NW 3	NW 4	3	9	8	8	9	2	5.1	
10	29.879	29.872	29.846	29.830	29.846	48 56	62 59	55 52	NW 3	NW 4	NW 6	NW 6	NW 5	NW 6	2	3	7	6	8	10	10.2	
11	29.790	29.782	29.713	29.633	29.648	53 56	56 56	54 51	NNW 4	N 5	N 6	N 5	N 4	WSW 2	10	2	7	3	10	10	11.0	
12	29.749	29.859	29.918	29.996	30.033	49 49	50 49	48 46	SW 4	S 4	S 3	SSE 2	S 3	E 2	10	8	8	9	3	0	4.1	12.15 a.m., fog set in. 2.30 a.m., fog cleared.
13	30.085	30.107	30.086	30.064	30.033	46 51	54 52	49 49	E 1	NE 2	NE 2	NE 2	NE 3	E 4	1	0	1	1	4	5	11.3	
14	29.931	29.830	29.805	29.740	29.693	49 50	51 49	49 49	NE 2	NE 4	E 5	E 5	E 6	E 5	4	4	10	10	10	10	4.0	
15	29.654	29.688	29.754	29.807	29.863	49 49	50 49	48 46	E 6	E 5	E 6	E 5	ESE 5	E 4	10	10	10	9	9	9	0.0	
16	29.931	29.949	29.947	29.929	29.916	45 46	46 46	45 45	E 4	E 4	E 3	SE 3	ESE 3	E 3	9	9	9	9	9	9	0.1	Very heavy ground sea from N.E.
17	29.865	29.817	29.825	29.802	29.787	44 45	46 47	46 43	ESE 4	E 4	E 3	E 3	ESE 2	W 1	9	9	9	9	8	6	0.1	Very heavy ground sea from N.E.
18	29.721	29.713	29.727	29.732	29.718	43 45	47 47	47 48	N 1	SSW 5	SSW 5	SSW 4	W 5	WSW 4	5	9	10	7	6	8	8.1	Midt., ground sea going down.
19	29.641	29.659	29.662	29.621	29.619	47 47	50 57	50 47	W 6	WSW 5	WSW 4	W 4	SW 5	WSW 4	9	9	9	8	9	7	2.0	
20	29.705	29.716	29.738	29.698	29.712	44 48	50 53	50 44	W 4	WSW 2	SW 2	NW 4	W 5	W 3	8	6	7	8	3	3	6.0	
21	29.711	29.670	29.594	29.536	29.554	45 51	58 56	50 45	NW 4	NW 5	WNW 6	W 6	NW 5	W 4	3	4	8	8	8	7	7.6	8 a.m., fast scud from N.W.
22	29.599	29.589	29.490	29.409	29.432	43 48	48 49	47 45	NW 3	NW 4	W 5	W 5	SW 8	SW 5	7	8	9	8	8	8	2.0	
23	29.601	29.575	29.497	29.462	29.476	41 46	55 55	51 49	NW 4	NW 4	W 6	W 6	NW 4	NW 4	9	9	8	8	4	2	2.1	4 p.m., fast scud from W.
24	29.424	29.406	29.286	29.142	29.109	47 53	53 53	51 49	NW 4	NW 5	N 6	N 4	N 2	NW 4	2	1	6	9	4	8	10.5	Noon, " " N.
25	29.094	29.115	29.112	29.126	29.211	50 49	50 49	46 44	NW 3	NW 4	WSW 3	SW 4	SW 2	S 1	9	10	9	7	8	3	2.6	
26	29.263	29.126	28.982	28.709	28.670	41 47	42 49	49 (47)	N 2	E 6	ESE 6	E 5	E 3	S 10	9	10	10	9	7	10	0.0	10.20 p.m., wind went S., sudden squall.
27	28.889	29.157	29.364	29.473	29.593	(45) 42	42 44	37 38	S 9	SSW 7	WSW 6	WSW 5	W 4	SSE 3	10	8	8	8	6	5.9	8 a.m., heavy sea S. Midt., very heavy hail shower.	
28	29.735	29.812	29.823	29.825	29.758	39 41	43 44	42 42	S 4	S 5	SSW 4	SW 2	NW 5	N 5	8	6	5	4	4	4	9.2	
29	29.589	29.470	29.335	29.335	29.424	45 46	49 54	47 47	N 6	N 6	NNE 7	NW 5	WNW 4	W 5	8	9	10	7	3	8	0.7	4 a.m., fast scud from N. Midt., fast scud from W.
Means.	29.623	29.630	29.609	29.585	29.599	46.9	50.6	53.0	52.6	40.2	47.1	4.4	4.1	4.0	3.9	6.6	6.5	7.3	7.3	6.5	5.9	5.7

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun-shine.	Remarks.															
	4	8	Noon.		4	8	Midt.	4	8	Noon.	4	8	Midt.	4	8	N.			4	8	M.												
			in.	in.																													
1	29.717	29.814	29.870	29.884	29.849	29.677	43	49	58	52	50	50	W	3	W	3	NW	4	NNE	5	N	6	NNE	6	6	3	6	6	10	10.8			
2	29.539	29.312	29.232	29.323	29.571	29.612	51	51	53	48	46	49	NE	6	NE	7	NW	7	WNW	8	NW	4	NNW	3	10	10	7	9	4	8	1.7		
3	29.594	29.568	29.557	29.516	29.521	29.494	48	52	57	58	51	49	N	5	NNW	5	NW	6	NW	5	NNW	4	NNW	3	9	9	6	7	7	8	4.8	Noon, fast scud from N.W.	
4	29.372	29.270	29.200	29.097	29.157	29.151	50	52	54	56	48	43	NNE	4	N	5	NNW	4	NW	5	NW	6	WNW	6	8	9	10	8	3	9	0.4	4 a.m., mock moon.	
5	29.290	29.511	29.615	29.705	29.819	29.852	45	45	48	48	44	44	W	6	WSW	6	W	7	W	6	W	5	NW	3	8	8	6	6	5	2	8.8		
6	29.849	29.823	29.723	29.568	29.454	29.368	45	50	53	53	50	50	NW	4	NNW	3	NNW	5	N	6	NNE	7	N	5	7	9	9	10	9	10	7	1.1	4 a.m., big circle round moon.
7	29.184	29.108	29.152	29.210	29.306	29.359	50	51	50	52	44	41	N	5	NW	4	W	6	W	8	W	7	WNW	6	9	10	9	6	4	4	4.0	4 a.m., big circle round moon.	
8	29.451	29.562	29.678	29.778	29.839	29.816	42	45	46	47	45	46	WNW	5	W	6	NW	5	W	6	NW	4	NNW	3	7	8	9	4	8	8	5.0	4 p.m., fast scud from N.W.	
9	29.719	29.599	29.507	29.583	29.716	29.753	47	49	56	55	46	44	N	5	W	6	NW	5	W	6	NW	4	NNW	3	9	10	7	4	6	8	5.3	4 a.m., fast scud from N.W.	
10	29.771	29.837	29.890	29.869	29.849	29.812	44	49	52	52	51	51	WNW	3	WNW	4	W	4	N	3	NNE	3	NNW	4	2	4	2	8	7	7	7.6		
11	29.752	29.733	29.675	29.564	29.484	29.413	48	50	50	50	50	50	N	3	N	4	N	5	N	4	N	5	N	4	8	10	10	10	9	0	0.3		
12	29.356	29.463	29.540	29.569	29.568	29.566	46	51	52	55	49	48	NW	3	W	5	W	3	NW	4	N	3	NNW	2	3	2	3	1	2	7	10.5		
13	29.606	29.642	29.681	29.686	29.706	29.713	45	53	51	53	49	44	W	3	W	4	WSW	4	NW	5	N	4	NW	2	2	1	4	6	9	0	10.8	8 a.m., passing fog.	
14	29.719	29.680	29.578	29.507	29.448	29.538	45	48	54	52	51	45	NNW	3	N	4	N	5	NNW	6	NW	5	WNW	4	1	9	7	9	9	0	5.0		
15	29.614	29.701	29.778	29.767	29.762	29.664	46	47	53	52	48	48	NW	5	W	5	WNW	3	NW	5	NNW	3	N	6	1	5	6	8	7	10	8.3		
16	29.473	29.360	29.215	29.130	29.095	29.013	47	49	52	56	52	51	NNE	7	NNE	6	NNE	6	NNW	4	NNW	3	N	5	10	10	10	8	9	7	3.4		
17	29.006	29.095	29.187	29.235	29.331	29.419	49	47	52	53	48	46	W	5	WSW	4	WNW	4	W	3	NW	4	W	3	5	8	6	8	9	9	3.8		
18	29.431	29.458	29.499	29.558	29.661	29.735	44	45	45	45	44	42	W	2	SW	4	S	4	SW	5	WSW	5	WNW	4	9	9	9	7	9	6	2.7		
19	29.760	29.747	29.740	29.738	29.756	29.761	40	48	48	50	48	48	W	4	NW	5	WNW	5	WNW	4	NW	5	NW	5	2	8	10	9	7	2	0.9		
20	29.761	29.734	29.670	29.618	29.644	29.687	47	51	55	55	50	44	NW	3	NW	4	WNW	6	WNW	6	NW	5	W	4	3	5	7	9	5	2	3.1		
21	29.693	29.665	29.593	29.468	29.407	29.269	43	45	52	52	50	48	W	2	NW	2	N	2	N	3	N	4	N	5	0	9	9	8	7	10	0.2		
22	29.185	29.103	29.039	29.008	29.042	29.053	48	49	48	46	45	41	N	3	N	3	WNW	4	Calm	0	NNW	3	WNW	3	8	9	10	6	2	0	1.6		
23	29.027	29.034	29.029	29.045	29.119	29.155	43	44	47	46	41	39	NW	4	W	4	NW	3	W	5	W	3	SW	5	5	8	7	6	6	7	4.7		
24	29.191	29.225	29.259	29.294	29.353	29.381	38	37	40	44	39	38	W	5	W	6	WNW	6	W	5	WSW	4	WNW	3	3	9	7	4	4	4	7.1	Noon, very heavy hail shower.	
25	29.379	29.302	29.248	29.312	29.416	29.387	41	48	55	55	46	47	NW	2	NNW	4	W	7	W	6	W	5	NW	2	6	10	7	6	6	8	8.3	8 p.m., cock's eye round moon.	
26	29.295	29.168	29.190	29.361	29.567	29.657	48	49	54	50	45	43	NNE	5	NW	2	W	6	W	7	W	5	NW	2	10	10	3	5	7	5	8.4		
27	29.705	29.728	29.707	29.631	29.616	29.569	42	46	46	45	44	45	NW	4	NW	1	N	5	NNE	4	N	4	N	5	8	9	8	7	3	9	1.7		
28	29.486	29.405	29.277	29.369	29.487	29.586	45	47	54	43	42	40	N	4	NNE	6	NNE	4	W	5	NW	4	WNW	3	4	9	7	10	2	2	1.6	Noon, fast scud from N.W.	
29	29.623	29.637	29.564	29.454	29.399	29.348	41	46	49	47	47	48	NW	3	N	5	N	6	NNE	7	NNE	6	NNE	6	5	7	9	9	10	10	2.5		
30	29.265	29.172	28.976	28.914	29.138	29.357	48	48	46	44	44	39	NNE	6	NNE	4	WSW	2	W	5	W	6	W	5	10	10	10	10	4	0.0	Midt., heavy rain.		
31	29.474	29.523	29.449	29.303	29.357	29.379	38	42	43	49	48	47	NW	3	NE	3	E	5	NNE	5	NW	3	N	4	7	9	10	10	5	7	0.0		
Means.	29.493	29.483	29.462	29.454	29.498	29.501	45.1	47.8	50.7	50.4	46.9	45.4	4.0	4.3	4.8	5.0	4.5	4.0	6.0	7.9	7.4	7.2	6.4	6.1	4.3								

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun- shine.	Remarks.									
	4		Noon.		4		8		Noon.		4		8		Midt.												
	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°											
1	29.373	29.368	29.409	29.459	45.49	52.51	46.43	N	5	N	6	NW	6	NW	6	W	4	NW	2	2	2	4	4	3	hrs.	10.29 a.m., fog set in. 2 p.m., fog cleared. 4.15 p.m., fog set in. 10.30 p.m., fog cleared.	
2	29.707	29.715	29.659	29.539	44.47	47.48	48.49	N	2	N	2	NE	4	NE	3	NE	5	N	3	3	7	10	9	10	10	3.0	7 a.m., fast scud from N.W.
3	29.184	29.125	29.112	29.164	47.48	43.42	(40) 39	NW	4	WNW	5	W	6	SW	7	SW	9	WSW	7	2	4	9	8	8	7	5.9	8 p.m., heavy hail showers.
4	29.459	29.565	29.625	29.653	38.40	41.42	41.44	SW	6	WSW	6	WSW	5	W	5	W	5	WNW	4	8	8	8	10	9	8	1.1	Heavy ground sea from S. all day.
5	29.601	29.551	29.508	29.547	43.44	45.43	41.36	W	5	W	5	WSW	6	WSW	6	SW	5	WSW	2	9	9	9	9	6	9	1.1	8 a.m., heavy sea S.
6	29.738	29.807	29.870	29.920	37.40	39.39	38.34	S	2	S	1	S	2	SE	1	W	1	W	1	8	9	8	7	3	6	0.7	
7	30.049	29.991	29.950	29.895	41.42	45.44	45.48	NE	3	NNE	5	NNE	6	NE	6	NE	7	NNE	5	9	8	9	9	10	10	2.2	
8	29.683	29.761	29.756	29.680	45.48	51.47	48.49	NW	4	NW	3	N	1	NE	3	NE	5	N	5	0	8	9	10	10	10	0.7	2 p.m., fast scud from W.
9	29.363	29.427	29.525	29.625	51.49	54.49	46.45	NNW	5	NW	6	WNW	6	W	4	W	5	W	6	7	4	5	7	4	6	7.8	
10	29.919	30.051	30.115	30.160	47.44	49.47	46.42	NW	4	W	4	W	4	WSW	1	N	1	NW	2	2	2	3	3	0	1	9.9	
11	30.212	30.201	30.177	30.176	44.45	49.47	47.47	N	2	N	3	NNE	4	NNE	5	NNE	6	NNE	6	0	2	5	8	8	8	8.2	2 a.m., very heavy dew. 5 to 7.40 a.m., fog.
12	30.027	29.983	29.952	29.957	47.48	49.48	48.48	NE	6	NE	6	NE	6	NE	6	NNE	6	N	5	9	8	9	10	10	10	0.2	
13	30.027	30.063	30.063	30.063	48.48	48.49	49.49	NNE	5	NNE	3	NNE	4	NE	4	NE	5	NNE	5	10	10	10	10	10	10	9.0	3.40 a.m. till 2 p.m., thick mist and fog.
14	30.091	30.095	30.068	30.038	48.48	49.48	48.47	NE	4	NNE	4	NE	3	E	2	E	2	E	2	10	10	9	9	10	10	1.6	10.30 p.m., fog set in.
15	29.909	29.909	29.903	29.891	46.46	47.46	46.44	SE	4	ESE	4	SE	3	SE	4	ESE	5	SE	5	10	10	10	9	8	9	0.0	2.45 p.m., fog cleared.
16	29.776	29.776	29.771	29.762	45.45	45.43	42.42	SE	4	SE	5	ESE	4	ESE	4	ESE	3	ESE	4	10	9	10	10	10	10	0.0	
17	29.707	29.695	29.658	29.597	42.43	44.44	44.45	ENE	3	NE	4	NE	5	NE	5	NE	6	NNE	6	9	10	10	10	10	10	0.0	
18	29.386	29.309	29.263	29.267	45.46	47.46	45.44	NE	5	NNE	3	N	2	W	6	W	5	W	5	10	10	10	9	7	8	0.0	4 p.m., ground sea from N.E. Fast scud from W.
19	29.270	29.326	29.434	29.500	44.44	45.44	43.43	WNW	5	SW	6	WSW	7	WSW	7	SW	6	SW	5	10	10	9	10	9	7	0.2	
20	29.672	29.639	29.749	29.805	40.42	41.41	40.38	SW	4	NW	5	WSW	6	WSW	5	SW	5	W	4	8	10	7	8	8	9	3.7	
21	29.838	29.792	29.749	29.701	38.40	41.41	40.40	WNW	4	WNW	4	WNW	3	W	3	W	2	W	3	9	9	9	9	6	8	1.2	
22	29.738	29.845	29.885	29.924	39.44	44.45	42.42	SW	4	WSW	5	WSW	3	WSW	1	W	3	NW	4	4	6	8	6	3	8	2.7	
23	29.878	29.870	29.857	29.837	43.44	49.49	45.47	W	3	WNW	4	WNW	4	NW	4	NW	5	N	6	8	4	4	3	5	8	8.6	
24	29.636	29.545	29.438	29.350	47.47	49.49	48.47	N	5	N	4	NNW	4	NNW	5	NW	3	N	3	8	10	10	10	10	10	0.0	
25	29.170	29.112	29.123	29.238	47.46	52.44	43.42	N	2	NNE	4	W	4	SW	3	S	3	S	4	5	10	9	9	9	8	0.9	6 a.m., wet fog set in. 9.45 a.m., fog cleared. 4 p.m., heavy ground sea from S.
26	29.357	29.447	29.511	29.575	40.41	41.40	37.38	SW	5	SW	5	WSW	5	WSW	5	W	5	WNW	5	8	8	7	6	2	3	3.3	
27	29.627	29.689	29.719	29.735	40.39	43.42	41.41	WNW	4	WNW	5	W	4	W	4	WSW	5	WSW	3	4	9	8	7	9	9	1.6	
28	29.784	29.805	29.829	29.811	38.41	43.43	43.42	WSW	4	S	5	S	2	SSW	3	S	3	S	5	4	7	7	5	8	5	6.4	
29	29.841	29.904	29.929	29.950	40.40	42.42	41.41	SSW	3	SW	4	WSW	5	SW	6	SW	5	SW	4	9	8	7	8	8	8	3.7	
30	30.065	30.128	30.157	30.182	40.40	42.41	38.40	SSW	5	SW	4	SW	3	SW	2	WNW	2	WNW	2	8	8	9	5	7	8	3.3	
Means.	29.703	29.716	29.725	29.733	13.3	44.3	45.9	44.8	43.6	43.2	4.0	4.3	4.2	4.4	4.1	6.8	7.6	8.0	7.9	7.4	8.0					2.9	

Days.	Barometer.						Air Temperature.						Wind.						Amount of Cloud.				Sun- shine.	Remarks.									
	4		8		Noon.		4		8		Noon.		4		8		Midt.		4	8	N.	4			8								
	in.	in.	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°			hrs.								
1	30.165	30.156	30.127	30.123	30.121	30.145	40	41	44	45	44	44	WNW	2	NW	4	NW	3	NW	4	NW	3	NW	2	9	9	9	9	0.0				
2	30.156	30.149	30.111	30.075	30.019	29.921	42	42	44	42	45	45	NW	2	N	3	N	5	N	5	NNE	5	N	6	2	4	9	10	8	2.0			
3	29.861	29.766	29.687	29.696	29.761	29.801	45	46	48	50	44	42	N	5	NNE	6	NNW	6	W	6	W	3	NW	4	7	10	10	7	0	0.9	1 p.m., fast scud from N.E.		
4	29.781	29.731	29.623	29.423	29.349	29.246	43	44	46	46	48	46	NW	5	N	4	NNE	3	NNE	5	N	2	NNW	5	6	8	8	10	10	9	1.0	2.25 to 5.55 p.m., fog. Midt., fast scud from N.W.	
5	29.200	29.230	29.288	29.322	29.343	29.393	44	43	48	46	45	44	NW	3	NW	2	W	2	SE	1	N	1	NW	2	9	7	7	9	5	6.5	Midt., fast scud from N.W.		
6	29.441	29.476	29.421	29.337	29.178	29.080	45	46	46	47	46	46	NW	3	N	4	NNE	4	NE	5	NE	5	W	3	7	9	9	10	9	0.1	4 a.m., heavy dew. Big circle round moon. 8 p.m., heavy rain.		
7	29.099	29.151	29.218	29.246	29.207	29.110	45	44	45	43	43	44	W	5	WSW	6	W	5	WNW	3	SE	1	ESE	5	9	9	8	8	9	1.4			
8	28.993	28.953	28.917	28.933	28.994	29.046	41	43	40	39	38	38	ESE	5	SE	5	ESE	6	ESE	5	SE	3	S	4	10	10	10	10	8	0.0	Passing showers of sleet all day.		
9	29.080	29.126	29.169	29.199	29.226	29.258	38	38	38	37	37	36	S	5	S	6	SSW	5	S	6	SSW	5	SSW	5	7	7	7	7	7	3.0			
10	29.273	29.276	29.303	29.298	29.322	29.327	31	32	36	37	37	35	SSW	4	SW	4	SW	5	SW	5	SW	6	SW	6	8	8	9	8	9	0.0	Heavy sea S.W. all day.		
11	29.327	29.370	29.442	29.514	29.606	29.668	36	37	37	35	35	36	SSW	6	SW	7	SW	6	SW	7	SW	6	SW	6	8	8	8	9	7	0.6			
12	29.714	29.693	29.597	29.467	29.295	29.032	37	37	40	41	43	44	SW	4	NW	4	NW	5	NW	4	N	5	N	6	7	8	9	10	10	0.0	4 p.m., heavy ground sea from S.		
13	28.988	29.161	29.277	29.344	29.410	29.450	44	38	37	34	33	34	NW	5	SW	7	SW	6	W	4	NW	3	WSW	3	8	10	9	8	5	9	0.0		
14	29.512	29.610	29.705	29.766	29.794	29.784	33	34	34	33	33	29	S	4	S	5	SW	4	SW	3	S	4	SW	2	10	9	6	6	4	6	4.1		
15	29.877	29.911	29.924	29.933	29.925	29.882	29	29	33	33	33	36	W	4	W	3	WNW	4	NW	3	NW	2	N	3	5	4	6	7	8	9	4.7		
16	29.809	29.738	29.623	29.593	29.577	29.592	36	37	38	29	38	36	N	4	N	3	NE	4	SW	3	SSW	3	W	2	10	10	10	9	8	9	0.0		
17	29.588	29.584	29.563	29.525	29.504	29.504	35	36	41	38	38	38	W	3	W	2	SSE	4	SE	3	SE	5	S	5	9	9	10	10	10	10	0.0		
18	29.548	29.648	29.765	29.858	29.952	29.971	37	37	37	36	34	34	S	4	S	5	SW	5	SW	5	SW	4	W	4	8	10	6	9	8	3	1.9		
19	29.947	29.933	29.864	29.741	29.550	29.395	35	35	40	39	38	36	W	5	W	4	WNW	5	NW	6	WNW	6	W	7	3	4	5	8	9	6	6.2		
20	29.281	29.408	29.650	29.778	29.790	29.711	37	37	34	36	35	32	WSW	6	SW	8	S	8	SSW	5	S	2	W	3	7	7	7	7	8	8	2.5		
21	29.586	29.340	29.215	29.117	29.101	29.044	34	38	40	38	35	32	WNW	5	NW	6	WNW	5	W	6	W	5	W	7	9	10	10	5	8	8	0.0		
22	28.991	28.952	29.056	29.299	29.512	29.601	31	32	38	37	35	32	W	7	W	8	SW	9	SSW	8	SSW	7	SSW	6	10	10	8	9	7	9	0.6		
23	29.684	29.803	29.891	29.991	30.053	30.096	30	32	33	31	32	27	SSW	6	SSW	5	SSW	6	SW	5	SW	4	WSW	4	8	7	7	7	7	3	2.1		
24	30.096	30.092	30.047	30.041	30.021	29.978	26	27	30	33	35	35	W	4	NW	5	WNW	5	WSW	4	W	5	W	4	3	4	8	8	10	10	4.6		
25	30.000	29.974	29.944	29.966	30.013	30.035	35	35	40	39	37	36	W	5	W	5	WSW	6	SW	5	SW	6	SW	6	9	10	8	8	4	7	0.4	8 p.m., fast scud from S.W.	
26	30.051	30.069	30.114	30.130	30.155	30.175	36	36	38	37	36	36	WSW	4	W	5	W	4	W	3	W	4	W	3	10	10	10	8	8	8	0.3	Midt., cook's eye round moon.	
27	30.186	30.191	30.201	30.211	30.233	30.247	36	36	40	40	40	39	W	4	W	5	WSW	6	WSW	5	W	6	W	5	10	10	10	9	9	9	1.9		
28	30.259	30.277	30.286	30.271	30.271	30.274	38	39	41	40	40	39	W	5	W	6	W	6	W	5	W	5	W	4	9	9	9	9	7	7	0.0	Midt., fast scud from W.	
29	30.278	30.261	30.206	30.152	30.114	30.016	38	37	38	39	37	40	W	4	W	3	NW	3	NW	3	NW	2	NNW	2	9	8	7	9	10	10	0.2		
30	29.949	29.866	29.813	29.783	29.788	29.814	42	44	45	43	41	38	NW	4	NNW	4	NW	4	NW	4	NW	2	S	3	SSW	4	9	10	10	10	10	0.0	
31	29.846	29.897	29.930	29.974	29.992	29.981	38	37	39	37	35	36	SSW	4	SW	4	SW	4	SW	4	W	3	W	4	8	8	9	9	10	6	0.0	Midt., fast scud from N.W.	
Means.	29.663	29.671	29.677	29.681	29.683	29.664	37.3	37.7	39.6	39.0	38.4	37.6	4.4	4.8	4.9	4.4	4.0	4.2	4.0	4.2	4.0	4.2	4.0	7.8	8.3	8.3	8.5	8.0	7.6	1.5			

Days.	Barometer.						Air Temperature.				Wind.				Amount of Cloud.						Sun-shine.	Remarks.										
	4		8		Noon.		4		8		Noon.		4		8		Midt.		4				8		N.		4		8		M.	
	in.	in.	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	°	°			°	°	°	°	°	°	°	°	°	hrs.
1	29.971	29.966	29.957	29.950	29.944	29.930	37	40	41	42	42	40	°	NNW	4	NNW	3	NNW	2	NNW	2	NNW	1	WSW	3	9	10	10	10	10	0-0	11.30 p.m., fog set in.
2	30.108	30.186	30.202	30.176	30.162	30.101	39	36	40	39	40	46	W	4	W	2	N	3	N	4	N	5	NNE	5	10	10	3	10	8	7	5-2	10 a.m., fog cleared. 1.20 to 9.15 p.m., fog.
3	30.061	29.987	29.871	29.899	29.916	29.913	45	43	44	45	46	45	N	4	N	6	NNW	8	NNW	6	NNW	5	NW	6	5	9	9	9	9	7	0-0	Midt., cock's eye round moon.
4	29.943	29.954	29.926	29.898	29.903	29.894	43	42	45	45	42	41	NW	4	NW	3	NW	4	NW	4	NW	2	NW	2	6	4	4	8	9	10	5-1	4 a.m., heavy dew.
5	29.880	29.886	29.851	29.821	29.753	29.629	41	42	44	44	44	44	NNW	3	N	1	N	2	N	4	N	5	N	6	9	10	10	5	10	0-0	4 a.m., cock's eye round moon.	
6	29.491	29.459	29.472	29.526	29.573	29.605	44	45	45	44	41	41	NNE	6	N	5	NNW	3	NW	2	NW	5	NW	4	10	10	10	9	0	0	0-9	
7	29.561	29.493	29.341	29.078	28.957	28.932	40	41	43	44	46	45	N	5	N	5	NE	6	NNE	7	N	7	NNW	8	10	10	9	10	6	6	0-0	2.45 to 10.30 a.m., fog.
8	28.930	28.937	28.997	29.070	29.257	29.467	43	42	45	43	40	37	NW	6	NW	5	NW	6	NW	5	W	3	NW	4	2	3	3	6	10	3	5-0	
9	29.563	29.630	29.557	29.457	29.333	29.168	38	38	42	43	44	43	NNW	3	N	2	N	4	N	5	N	4	NNW	5	3	3	8	9	9	9	3-9	4 p.m., fast scud from N.W.
10	29.170	29.282	29.413	29.478	29.553	29.591	40	36	37	35	34	37	W	5	W	4	W	5	NW	5	W	4	NW	5	10	4	8	3	0	0	5-5	
11	29.588	29.568	29.474	29.396	29.285	29.244	38	38	41	36	36	37	NNW	4	NNW	3	NNW	5	NW	2	SSW	2	S	4	0	9	10	10	10	10	0-0	0-0
12	29.242	29.278	29.355	29.395	29.458	29.513	36	37	35	35	32	29	S	5	S	6	SW	5	SW	5	S	5	W	3	10	8	10	8	7	10	0-7	0-7
13	29.545	29.607	29.618	29.701	29.755	29.813	32	33	33	32	30	28	S	4	SSE	5	SSW	5	SSW	3	SSW	2	W	3	5	8	7	7	7	5	2-3	2-3
14	29.823	29.841	29.857	29.882	29.936	30.025	27	28	31	30	33	36	W	4	W	4	W	5	W	4	SW	3	S	3	4	8	7	5	10	9	2-2	2-2
15	30.077	30.103	30.189	30.205	30.191	30.173	34	33	34	33	33	34	S	4	SSE	3	SE	2	SE	1	E	2	NNW	4	6	9	9	8	9	0-0	0-0	Midt., wet fog.
16	30.141	30.045	29.947	29.850	29.731	29.596	34	36	37	40	41	41	NNW	5	NNE	4	NE	6	NE	7	NE	7	NE	8	9	9	10	10	10	0-0	0-0	5.30 a.m., fog set in. 6.40 a.m., fog cleared. Midt., very heavy Fog nearly all day.
17	29.464	29.438	29.421	29.405	29.391	29.382	(41)	42	42	41	40	40	NNE	10	NNE	8	NNE	5	N	4	N	5	N	6	10	10	10	10	10	0-0	0-0	Midt., fog cleared. 6.40 a.m., fog cleared. Midt., very heavy Fog nearly all day.
18	29.366	29.347	29.363	29.435	29.510	29.606	40	42	43	42	40	36	NNE	5	NNE	5	N	5	NW	4	NW	3	NW	2	10	10	10	10	7	10	2-2	2-2
19	29.677	29.724	29.751	29.805	29.848	29.851	37	38	43	42	42	41	NNW	3	NNW	4	NNW	3	NNW	4	N	2	N	3	7	9	5	10	10	8	5-2	5-2
20	29.857	29.878	29.865	29.831	29.862	29.859	41	39	40	39	40	40	NNE	5	N	2	N	3	NNE	4	N	2	N	3	4	10	9	10	10	10	0-3	0-3
21	29.857	29.845	29.833	29.819	29.801	29.767	40	40	40	40	40	42	N	4	N	4	NNW	3	N	4	NNE	5	NNE	6	10	10	10	10	7	0-0	0-0	Midt., heavy rain.
22	29.763	29.725	29.705	29.665	29.649	29.637	42	43	44	43	43	42	NNE	4	NE	5	NE	6	NE	5	NE	6	NNE	4	10	10	8	9	10	10	0-0	0-0
23	29.637	29.655	29.673	29.711	29.738	29.776	42	41	43	42	40	38	NNE	4	NE	3	N	2	W	3	WNW	4	WNW	3	8	9	10	9	7	9	0-5	0-5
24	29.799	29.784	29.727	29.595	29.362	29.163	35	34	39	40	37	43	NW	3	WNW	2	NNE	4	NE	5	NE	7	NNE	6	3	4	8	9	10	10	0-0	0-0
25	29.125	29.201	29.203	29.155	29.100	29.078	13	43	46	45	44	43	NW	4	NW	5	NW	3	NW	4	NNW	6	NW	3	8	9	9	9	10	8	0-2	0-2
26	29.145	29.283	29.378	29.485	29.589	29.683	42	40	42	38	36	38	NW	4	W	4	W	2	W	4	SW	4	S	2	8	9	8	10	10	8	3-0	3-0
27	29.721	29.811	29.850	29.932	30.009	30.055	39	37	40	39	36	35	S	3	W	2	NW	1	W	2	W	1	W	2	8	10	6	10	5	4	2-7	2-7
28	30.081	30.107	30.090	30.038	29.960	29.882	36	35	37	38	39	40	W	2	W	1	N	2	NNE	3	NE	5	NNE	4	6	4	8	10	9	9	4-9	4-9
29	29.806	29.716	29.575	29.427	29.339	29.265	39	42	43	43	43	42	N	2	N	2	N	3	NE	4	N	3	WNW	1	9	9	10	10	10	0-0	0-0	6.50 a.m., wind N. 2. Fog at intervals all day.
30	29.230	29.207	29.219	29.270	29.369	29.459	40	40	38	35	35	35	S	5	S	6	SSE	7	S	6	S	7	S	6	10	10	8	8	9	9	0-0	0-0
Means.	29.654	29.665	29.655	29.645	29.613	29.640	38.9	38.9	40.6	39.9	39.3	39.3	4.3			3.8	4.0	4.1						4.1	7.3	8.2	8.1	8.9	8.2	7.9	1.7	1.7

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun-shine.	Remarks.						
	4	8	Noon.	4	8	N. 4	8 M.	4	8	Noon.	4	8	Midt.	4	8	N. 4			8 M.					
1	in. 29.538	29.632	29.682	29.720	in. 29.710	° 35	° 35	° 35	SSW 5	SSW 5	SW 3	WNW 2	NW 3	NNW 2	9	9	7	6	9	1.5 hrs. Midt., slow scud from N.W.				
2	29.674	29.631	29.612	29.571	29.439	35	34	36	35	33	33	NW 2	N 1	NW 2	NW 1	5	5	9	8	3	0.0			
3	29.412	29.416	29.403	29.366	29.289	31	33	38	37	39	41	W 2	Calm 0	NE 2	NE 5	6	3	5	8	9	3.4			
4	28.973	28.992	29.047	29.057	29.344	43	40	40	38	38	35	NNW 6	NW 4	W 5	SSW 4	NW 4	8	10	8	7	8	0.3		
5	29.450	29.561	29.635	29.714	29.784	35	34	37	35	34	32	NW 5	WNW 6	WNW 4	WNW 3	WNW 2	7	4	3	7	3	4.4		
6	29.783	29.795	29.846	29.742	29.835	33	30	34	34	34	34	NW 2	NW 3	WNW 5	WNW 3	NW 2	3	4	7	4	3	2	5.0	
7	29.821	29.808	29.775	29.774	29.845	33	35	36	35	33	34	NW 3	NW 4	WNW 3	W 5	SW 5	4	4	5	7	3	0	5.3	
8	29.863	29.895	29.933	29.925	29.943	33	33	33	32	29	29	SW 4	SW 5	WSW 4	WNW 3	WNW 4	2	8	9	9	6	6	0.0	
9	29.934	29.921	29.898	29.887	29.805	30	29	34	33	33	32	NNW 5	WNW 4	WNW 5	WNW 3	WNW 3	3	5	8	8	8	8	3.3	
10	29.704	29.665	29.696	29.760	29.822	36	37	37	34	31	31	SW 4	S 5	SW 4	W 2	W 3	WNW 2	7	9	9	3	2	0.0	
11	29.818	29.815	29.777	29.752	29.713	32	33	39	36	35	35	NNW 5	NNW 4	NNW 2	NNW 5	WNW 2	WNW 3	4	8	5	8	5	4.4	
12	29.699	29.682	29.684	29.770	29.842	36	34	34	33	33	28	NW 4	NW 2	WSW 5	SW 6	SW 5	W 4	8	6	7	7	8	2.9	
13	29.850	29.860	29.884	29.901	29.953	27	27	33	31	30	26	W 3	NW 4	W 4	W 3	W 4	W 4	3	5	5	6	8	4	6.0
14	30.037	30.072	30.099	30.127	30.142	25	27	33	30	28	25	W 3	NW 4	WNW 3	WNW 3	WNW 3	WNW 2	3	6	8	4	4	3	1.0
15	30.134	30.116	30.110	30.075	30.085	28	29	32	34	38	36	NW 2	NW 1	S 3	SSE 4	S 5	3	9	9	8	5	7	0.0	
16	30.103	30.143	30.170	30.178	30.185	35	33	35	35	35	35	SSE 4	SE 5	SE 4	SE 5	ESE 5	5	8	9	9	7	6	0.7	
17	30.175	30.101	30.051	29.974	29.851	35	34	35	35	36	37	E 4	E 5	E 5	E 6	E 4	8	9	9	9	9	9	0.0	
18	29.798	29.772	29.738	29.697	29.615	37	37	38	38	37	40	NE 3	NE 4	NNE 2	N 4	N 1	N 4	9	10	9	9	3	5	0.0
19	29.548	29.472	29.451	29.493	29.670	37	39	39	39	38	36	N 5	N 2	SE 1	S 4	SW 5	SW 4	8	8	8	6	6	8	0.0
20	29.738	29.774	29.782	29.702	29.489	34	34	34	36	38	38	W 2	WNW 3	NW 2	NE 3	NNE 6	NNE 6	8	9	9	10	9	9	0.0
21	29.267	28.973	28.741	28.640	28.858	39	40	42	40	37	37	NNE 6	NE 6	NE 4	WSW 5	W 6	W 7	10	10	10	10	7	0.0	
22	28.912	28.902	28.881	28.889	28.926	36	35	39	38	35	34	W 6	W 4	WNW 5	WNW 5	W 5	NW 6	5	4	8	8	4	1	5.8
23	28.924	28.972	28.983	29.009	29.016	34	33	35	34	34	32	W 5	W 4	W 5	SW 5	SW 4	N 3	6	5	7	7	7	4.5	
24	29.005	29.037	29.071	29.142	29.244	32	29	27	26	26	27	WSW 6	SW 7	W 6	SW 7	SW 8	SW 9	8	8	7	8	8	6	2.9
25	29.242	29.309	29.331	29.333	29.344	28	30	31	31	30	26	S 7	SW 7	SW 6	SW 5	W 4	WNW 3	8	8	7	8	9	10	2.7
26	29.322	29.311	29.272	29.268	29.271	26	26	31	31	34	31	NNW 2	NW 1	NE 2	NE 4	NE 4	NNW 2	3	9	9	9	9	9	0.0
27	29.284	29.313	29.415	29.562	29.842	30	28	31	29	25	24	W 3	WSW 4	S 7	S 6	S 5	SSW 7	10	9	9	8	10	10	0.3
28	29.943	30.030	30.057	30.079	30.185	27	27	33	33	37	33	SW 7	SW 6	SW 7	SW 7	WSW 7	W 5	9	9	8	7	7	7	1.4
29	30.211	30.201	30.131	30.045	29.962	34	33	35	35	35	35	NNW 4	NNW 5	NW 5	NNW 6	NNW 5	NNW 5	4	5	8	9	9	9	3.0
30	29.936	29.921	29.907	29.903	29.843	35	36	37	36	35	38	NNW 5	NNW 4	NW 5	NW 4	NNW 5	NNW 5	10	9	0	1	2	8	6.0
31	29.766	29.619	29.480	29.426	29.450	38	39	40	40	38	38	N 3	N 3	NNW 5	NW 5	NW 5	NW 4	9	9	9	8	0	2	0.0
Means.	29.641	29.637	29.631	29.628	29.652	33.2	33.0	35.3	34.5	34.0	33.1	4.1	3.9	4.0	4.3	4.4	4.1	6.3	7.3	7.6	6.3	6.1	2.1	2.1

Days	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun-shine.	Remarks.									
	8		Noon.		4		8 M.		Noon.		4		Midt.		4 8 N. 4 8 M												
	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	°	hrs.											
1	29.397	29.415	29.447	29.479	39.37	41.39	37.36	N	5	NW	4	NW	3	WNW	4	4	2	0	2	3	7	7-7	Midt., very heavy rain. 8 a.m., heavy and continuous rain. 4.15 to 9 a.m., fog, noon, fast scud from N.N.W.				
2	29.443	29.504	29.529	29.565	36.36	41.39	38.36	W	5	WNW	4	WNW	5	W	5	W	5	4	8	4	7	3		4-3			
3	29.474	29.430	29.434	29.475	38.38	41.38	36.35	NW	6	NW	6	W	5	W	5	W	5	8	7	4	2	0		1-4			
4	29.678	29.754	27.769	29.689	35.34	40.39	39.39	W	5	W	4	NW	5	NNE	6	NE	7	2	3	4	9	10		10	5-1		
5	29.056	28.992	29.041	29.148	40.40	40.40	39.38	NE	7	NE	4	SW	5	SW	3	SW	3	10	10	9	9	9		9	0-0		
6	29.480	29.519	29.511	29.472	36.35	40.40	35.35	W	2	W	3	NNW	3	NW	2	W	2	NW	3	9	10	3	4	5	4-7		
7	29.476	29.486	29.527	29.567	34.34	38.36	37.35	NW	3	NW	4	W	5	W	8	W	7	2	3	5	7	4	6	6-9			
8	29.831	29.917	29.991	30.005	37.37	38.39	38.37	SW	8	WSW	6	WSW	5	WSW	6	SW	5	W	4	7	8	7	9	6	2-0		
9	30.017	30.017	29.989	30.014	36.37	39.38	37.36	W	5	W	4	W	5	SW	3	SSE	4	ESE	3	10	10	9	10	7	4-0		
10	30.065	30.127	30.133	30.140	34.33	34.33	33.33	S	4	E	3	ENE	5	NE	4	NE	5	NE	5	6	8	7	9	8	3-2		
11	30.135	30.111	30.038	30.014	34.35	36.38	38.40	NNE	6	NNE	6	NNE	6	NNE	7	NNE	8	NNE	7	6	8	8	9	9	0-5		
12	29.865	29.843	29.802	29.789	40.40	41.40	40.40	N	6	N	5	N	5	NNW	5	NNW	3	N	3	9	10	9	10	10	0-0		
13	29.697	29.695	29.682	29.660	39.38	38.38	38.38	NW	3	W	1	W	1	SW	2	SE	3	S	3	9	10	10	9	9	0-0		
14	29.584	29.674	29.781	29.856	37.36	37.36	35.34	SSE	5	SSE	6	S	5	SSW	3	S	3	E	3	10	8	8	6	7	8	1-9	
15	29.970	29.934	29.843	29.721	35.36	37.36	(38)	ESE	4	E	6	E	7	E	6	E	9	NE	8	9	9	10	10	10	0-0	8 p.m. and midt., heavy rain.	
16	29.420	29.556	29.633	29.681	41.40	41.39	39.38	NE	6	NW	5	NW	5	N	3	N	3	N	4	10	9	8	10	10	2-5	3 p.m., fog set in.	
17	29.615	29.575	29.559	29.551	38.39	44.46	39.37	N	3	N	2	W	1	Calm	0	WNW	1	NW	1	10	10	9	7	2	4	2-7	6.25 a.m., fog cleared.
18	29.527	29.534	29.521	29.514	36.37	38.38	39.39	N	1	N	1	NW	1	S	2	S	2	S	2	10	10	10	10	10	0-0	3.20 to 8.30 a.m., fog.	
19	29.524	29.533	29.538	29.541	37.38	39.39	36.34	S	3	S	2	SSW	3	SW	3	SW	2	WSW	3	9	9	9	8	5	1-7	4 p.m., ground swell from E.	
20	29.548	29.598	29.551	29.529	33.33	35.35	34.35	W	3	W	3	SW	1	NE	2	E	4	9	8	8	9	8	8	8	2-6		
21	29.255	29.166	29.047	28.973	36.37	38.40	39.37	E	5	E	5	E	6	ENE	4	NW	6	NW	5	9	10	10	8	8	0-0	4 p.m., fog.	
22	29.027	29.032	29.059	29.055	35.34	40.39	35.35	WNW	5	W	4	NW	6	NNW	5	NNW	6	NW	1	5	7	7	8	10	9	6-9	
23	29.075	29.242	29.337	29.419	37.36	41.38	35.38	SSW	5	W	6	W	5	W	6	W	4	NNW	6	5	8	9	7	3	8	3-8	4 a.m., fast scud from S.W.
24	29.379	29.323	29.263	29.241	39.40	41.41	39.38	NNW	4	N	5	NNW	6	NW	1	W	3	SSW	5	9	9	9	10	9	0-0		
25	29.346	29.471	29.513	29.575	37.34	37.39	34.33	SW	6	W	5	W	6	W	5	W	6	WNW	4	8	3	7	4	3	3	8-3	
26	29.779	29.863	29.869	29.892	33.34	42.42	38.38	W	4	W	5	W	6	WNW	5	WNW	4	WNW	5	3	3	5	6	9	8	8-7	4 p.m., fast scud from W.
27	29.829	29.799	29.773	29.707	37.39	42.42	41.41	NW	5	NW	5	NNW	6	NNW	5	N	6	NNW	7	6	8	9	7	9	9	2-3	4 p.m. to midt., fast scud from N.
28	29.456	29.327	29.316	29.308	40.42	44.44	40.40	N	6	NNW	7	NNW	5	NW	4	NW	3	NNW	4	7	6	9	9	9	9	1-9	
29	29.286	29.286	29.338	29.438	40.41	42.40	35.36	NNW	5	NNW	6	W	5	W	6	W	5	WSW	7	10	9	7	6	4	4	3-9	Noon, fast scud from S.W.
30	29.898	30.071	30.139	30.179	36.35	43.42	35.37	WSW	6	W	5	W	6	W	3	W	4	N	5	7	4	4	4	0	2	8-8	Noon, slow scud from W.
31	30.117	29.962	29.859	29.782	38.39	40.40	40.40	N	4	N	6	N	6	N	6	N	7	N	6	3	7	9	9	9	9	1-7	
Means.	29.590	29.605	29.608	29.612	36.9	38.9	39.6	39.1	37.3	37.0	4.7	4.5	4.6	4.0	4.5	4.5	4.5	4.5	7.3	7.5	7.5	7.7	7.7	7.2	7.2	3.1	

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun- shine.	Remarks.														
	4		8		4		8		4		8		4		8																	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.																
1	29.580	29.536	29.569	29.593	in.	29.562	°	°	°	°	°	°	°	°	°	°	hrs. 3.6	10.20 p.m., fog set in.														
2	29.515	29.482	29.433	29.411	29.425	29.415	37	38	38	38	NE	5	N	4	N	5	10	10	0.0	2.10 a.m., fog cleared.												
3	29.413	29.439	29.451	29.474	29.521	29.555	39	40	39	38	N	4	NE	3	Calm	0	Calm	0	10	10	0.1	3.10 to 5.30 a.m., fog. 12.45 to 3 p.m., fog.										
4	29.558	29.632	29.655	29.687	29.725	29.747	37	38	40	38	WSW	3	WSW	5	W	4	NW	3	NW	3	10	4	6	9	5	5	4.9	4 p.m., sleet.				
5	29.776	29.826	29.869	29.904	29.977	30.039	33	34	38	38	W	4	W	5	WSW	5	WSW	5	SW	5	6	10	8	8	6	6	5.8					
6	30.095	30.177	30.209	30.256	30.263	30.240	37	37	39	38	WSW	4	WSW	3	WSW	5	W	4	W	3	NW	2	6	8	4	4	7	5.9				
7	30.212	30.141	30.037	29.920	29.784	29.624	36	38	39	39	NNW	4	N	5	NNE	6	NNE	7	NNE	8	NNE	8	9	9	10	10	10	0.4				
8	29.512	29.472	29.409	29.377	29.399	29.405	40	41	43	43	N	7	NNE	6	N	5	NW	3	SW	5	SW	3	10	10	10	9	9	10	0.4			
9	29.407	29.425	29.439	29.406	29.361	29.269	38	38	39	40	37	38	SW	4	SW	5	WSW	4	Calm	0	N	4	NNE	5	10	10	9	6	5	2.1	8 p.m., very heavy ground sea from E.	
10	29.167	29.045	29.054	29.096	29.140	29.191	38	39	43	41	(40)	40	NNW	5	NNW	5	W	3	W	4	WSW	8	WSW	9	10	10	7	7	10	2.3	a.m., heavy rain.	
11	29.237	29.339	29.321	29.275	29.187	29.075	39	39	41	41	39	39	W	7	W	5	W	4	NNW	3	NNE	5	NNE	6	8	7	8	9	9	10	4.3	a.m., heavy rain.
12	28.965	28.918	28.919	28.970	29.042	29.084	39	40	44	44	39	39	NE	4	NNE	3	WNW	4	W	3	WNW	4	WNW	5	10	10	7	7	7	3.9		
13	29.116	29.225	29.373	29.460	29.534	29.497	36	39	43	43	37	39	W	5	W	5	W	4	NW	5	N	5	4	10	4	7	8	8	8	4.5		
14	29.310	29.239	29.233	29.337	29.513	29.636	41	42	50	46	40	40	N	6	N	5	W	6	WNW	7	W	7	W	6	9	9	7	2	7	0	6.3	
15	29.746	29.826	29.826	29.688	29.594	29.498	37	41	44	42	41	40	NW	5	NW	5	NNW	4	NE	6	NE	5	N	5	7	5	9	9	9	7	2.0	
16	29.440	29.391	29.375	29.426	29.553	29.679	41	42	50	51	44	40	NNW	4	NNW	4	NNW	4	NW	5	WNW	5	WSW	6	8	9	9	8	4	8	4.1	8 a.m. and 4 p.m., slow send from N.W.
17	29.785	29.912	29.977	30.035	30.056	30.056	37	39	42	41	40	40	W	4	W	8	SW	1	S	1	ESE	1	E	2	8	8	9	8	8	7	6.2	
18	30.016	29.979	29.927	29.845	29.779	29.745	40	40	41	40	40	40	E	5	ENE	5	ENE	5	N	6	NE	5	N	6	NE	5	7	9	10	10	1.9	a.m., fog at intervals.
19	29.700	29.624	29.475	29.327	29.245	29.053	40	40	41	41	42	41	NNE	5	NE	5	NE	6	NE	5	N	4	NE	3	10	10	10	10	10	10	0.0	a.m., fog at intervals.
20	28.929	28.819	28.755	28.753	28.821	28.887	40	42	42	42	41	42	NE	2	NW	2	W	5	W	4	W	5	W	5	10	10	10	9	9	9	0.1	
21	28.917	29.093	29.266	29.370	29.483	29.527	40	39	40	39	38	34	W	6	SW	5	SW	6	SW	6	SW	5	W	5	8	9	9	8	7	7	0.0	
22	29.497	29.536	29.620	29.642	29.664	29.639	35	36	37	38	36	34	W	6	W	7	WSW	7	WSW	6	WSW	5	W	4	8	8	6	9	7	2	5.3	
23	29.604	29.548	29.475	29.429	29.410	29.393	33	36	40	39	39	39	W	4	NE	1	NE	4	NE	5	ENE	5	E	5	4	7	9	8	9	9	2.1	
24	29.361	29.327	29.274	29.221	29.183	29.148	39	39	39	38	38	37	ENE	5	ENE	6	E	6	E	6	E	5	ENE	4	9	9	10	10	10	10	0.0	Midt., steady rain.
25	29.111	29.072	29.041	29.013	29.018	29.001	34	37	38	39	36	35	NE	3	S	3	SSW	4	WSW	5	W	5	W	5	10	10	10	9	7	5	0.0	
26	28.973	28.924	28.854	28.821	28.815	28.818	35	38	39	39	38	37	W	4	NW	3	NNE	2	NNE	4	NE	3	NNW	2	9	7	8	8	8	8	5.2	
27	28.865	28.915	28.941	28.969	29.017	29.022	33	37	43	37	37	37	W	3	W	4	W	3	W	2	W	5	W	6	5	6	8	9	7	9	6.4	
28	29.087	29.128	29.185	29.238	29.311	29.344	36	40	40	40	36	36	WNW	5	NW	5	SW	5	WSW	4	WNW	3	WNW	2	9	7	7	3	2	7	9.3	Midt., slow send from N.W.
29	29.371	29.401	29.375	29.277	29.097	28.919	34	39	41	41	41	41	WNW	3	NW	1	NE	4	NE	5	NE	6	N	6	5	5	8	10	10	9	4.6	
30	28.377	28.939	28.914	28.732	28.846	29.187	42	42	43	40	(39)	(38)	NW	4	NW	6	NW	9	NW	8	W	10	W	10	8	7	8	10	10	7	6.5	8 a.m. and noon, fast send from N.W.
Means.	29.405	29.411	29.409	29.398	29.413	29.108	37.5	39.0	41.3	40.7	39.9	38.1	4.5	4.3	4.7	4.3	4.7	4.3	4.7	4.7	4.7	4.7	4.7	4.7	8.2	8.3	8.2	7.9	7.7	8.0	3.3	

Days.	Barometer.				Air Temperature.				Wind.				Amount of Cloud.				Sun- shine.	Remarks.																
	8		Noon.		4		8		Midt.		8		Noon.		4				8		Midt.		8		Noon.		4		8		Midt.		8	
	in.	in.	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°			°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	
1	29.415	29.601	29.647	29.673	29.690	38	39	41	40	40	41	SW	6	W	4	WSW	2	NE	4	NE	5	NE	5	7	7	4	4	4	10	hrs. 6.5				
2	29.626	29.548	29.437	29.405	29.415	41	42	43	42	42	42	E	5	ENE	6	NE	5	NE	6	NE	5	NE	4	6	9	10	10	10	10	0.2				
3	29.453	29.505	29.537	29.559	29.605	40	42	43	43	41	38	NW	3	W	2	WSW	3	SW	3	SW	2	SW	2	10	9	8	8	10	4	5.4	4 p.m., heavy ground sea from N.E.			
4	29.633	29.653	29.651	29.609	29.610	38	42	42	41	39	40	SW	3	SW	1	NE	3	NNE	4	NNW	4	NW	3	9	3	5	9	4	9	7.0	4 a.m., heavy ground sea from N.E.			
5	29.627	29.640	29.637	29.582	29.523	38	38	38	38	41	42	W	2	W	1	NE	3	NE	5	N	5	N	5	9	9	9	10	6	8	1.2	Midt., heavy ground sea all day.			
6	29.419	29.417	29.398	29.404	29.442	43	45	49	54	48	43	N	5	NNW	4	N	5	NNW	3	S	2	SW	3	5	9	5	7	8	7	4.6	Midt., ground sea going down.			
7	29.455	29.446	29.382	29.332	29.340	42	44	46	45	45	44	S	2	N	1	NE	2	E	2	N	4	NW	5	2	5	7	9	6	4	3.8				
8	29.370	29.353	29.308	29.365	29.493	39	41	43	42	41	40	NW	1	N	2	W	3	SW	3	NW	2	NW	3	6	9	8	9	6	3	1.5				
9	29.600	29.583	29.531	29.540	29.565	41	42	48	45	41	39	NW	2	NE	4	NNW	5	NNW	6	NW	3	NNW	2	8	9	4	4	3	2	7.8				
10	29.547	29.496	29.383	29.342	29.387	39	40	40	38	40	37	NW	2	NNE	3	SSE	4	S	6	SW	5	SW	6	8	9	10	10	8	6	0.3	4 p.m., heavy rain.			
11	29.456	29.563	29.671	29.751	29.836	36	38	38	37	33	34	SW	5	S	6	SSW	5	WSW	5	WSW	4	NW	4	8	8	7	9	6	7	2.2				
12	29.874	29.916	29.960	30.002	30.067	34	34	42	41	37	36	NW	5	WNW	5	WSW	4	W	5	W	6	W	5	8	8	8	4	8	7	5.2	8 a.m., snow. Fast scud from W.			
13	30.097	30.166	30.142	30.136	30.083	38	39	42	40	39	38	SW	6	W	4	WSW	3	NW	4	NW	3	N	3	8	4	5	9	5	3	6.8				
14	29.913	29.804	29.675	29.567	29.508	38	41	41	41	41	41	NNW	4	NNE	6	NNE	6	NNE	6	NE	6	NE	6	3	5	8	9	9	9	5.3				
15	29.357	29.293	29.277	29.304	29.398	39	39	42	42	40	35	NE	5	NE	6	NE	3	SSW	4	SW	5	W	3	10	10	10	10	9	2	0.0	Noon, very heavy rain.			
16	29.479	29.471	29.447	29.491	29.579	38	42	45	40	39	38	NW	4	NW	6	WNW	5	W	7	W	7	WSW	6	9	9	8	8	9	8	4.4	8 p.m., big circle round moon.			
17	29.802	29.962	30.012	29.999	29.776	37	37	38	38	38	40	SW	7	SW	6	SW	4	S	2	NNW	5	N	6	8	9	8	4	7	9	4.0	8 p.m., big circle round moon.			
18	29.618	29.445	29.365	29.373	29.399	41	42	44	38	37	34	N	6	NNW	6	NW	4	WNW	5	W	5	W	4	9	10	9	8	5	0	1.0	8 p.m., cock's eye round moon.			
19	29.486	29.416	29.313	29.070	29.102	34	41	42	41	40	35	W	3	NW	6	W	6	NNE	8	NW	4	NW	5	2	5	9	10	9	5	3.3	8 p.m., big circle round moon.			
20	29.057	29.035	28.934	28.919	29.062	35	36	41	38	34	34	NW	4	NNW	5	NW	7	SW	9	WNW	8	WNW	6	4	8	8	7	9	9	5.8				
21	29.228	29.300	29.355	29.385	29.350	33	36	40	39	36	33	W	5	W	5	W	5	W	6	NW	6	W	5	7	6	6	7	6	10	7.4	4 p.m., fast scud from W.			
22	29.352	29.443	29.585	29.677	29.713	32	33	36	35	32	32	W	5	SSW	7	SW	4	SW	3	NW	4	NW	3	8	6	5	7	4	8.4	4 a.m., fast scud from S.W.				
23	29.757	29.744	29.739	29.759	29.785	32	36	43	40	37	37	NW	4	WNW	5	WNW	4	NW	6	WNW	3	W	4	4	8	9	9	4	9	0.5				
24	29.867	29.922	29.911	29.949	29.938	36	41	43	44	39	39	W	3	WNW	4	WSW	3	NW	5	NW	4	NNW	4	9	9	9	9	4	3	0.2				
25	29.842	29.705	29.537	29.345	29.270	39	43	42	43	43	38	N	4	N	6	N	7	N	6	N	5	WNW	6	10	9	9	9	5	4	2.3	Noon and 4 p.m., fast scud from N.			
26	29.501	29.619	29.674	29.677	29.625	39	45	50	47	42	42	WNW	4	WNW	5	WNW	7	NW	6	N	5	N	5	6	6	7	4	3	1	11.3				
27	29.415	29.284	29.187	29.285	29.338	42	43	50	49	43	43	N	5	N	5	NW	6	W	5	NW	2	NW	5	9	9	9	6	3	7	5.0	4 and 8 a.m., fast scud from N.			
28	29.393	29.434	29.447	29.500	29.583	42	47	52	48	41	39	WNW	4	WNW	5	NW	6	WNW	5	NW	4	NW	4	3	6	7	6	6	4	10.0				
29	29.530	29.445	29.475	29.505	29.597	40	45	44	42	39	35	NW	4	WNW	5	WSW	6	WSW	7	SW	7	SW	8	9	9	5	6	8	10	7.0	8 a.m., slow scud from W.			
30	29.854	29.980	30.089	30.182	30.245	35	36	37	37	37	35	SSW	7	SSW	7	SW	7	SW	6	S	5	SSW	3	9	9	8	7	6	2	3.3				
31	30.321	30.332	30.302	30.285	30.276	31	35	47	45	39	39	W	2	W	2	NNW	3	NNW	3	N	3	N	5	1	0	1	1	2	7	11.8				
Means.	29.592	29.598	29.582	29.580	29.604	29.617	37.7	40.1	43.0	41.7	39.5	38.2	4.1	4.5	5.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.7	7.5	7.3	7.4	6.3	5.9	4.6				

Days.	Barometer.						Air Temperature.				Wind.				Amount of Cloud.				Sun-shine.	Remarks.											
	4		8		Noon.		4		8		Noon.		4		8		Midt.				4		8		N. 4		8 M.				
	in.	in.	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°			°	°	°	°	°	°	°	°			
1	30-200	30-168	30-121	30-065	30-012	29-998	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	hrs.	0-0			
2	29-984	30-010	29-996	29-968	29-961	29-931	42.42	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	0-0		
3	29-899	29-885	29-881	29-827	29-773	29-747	43.43	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	2-3	12.40 a.m. to noon, fog.	
4	29-647	29-607	29-552	29-559	29-567	29-525	44.44	44.43	43.43	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	42.42	0-1		
5	29-463	29-410	29-423	29-480	29-532	29-535	42.43	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	46.47	2-1		
6	29-487	29-450	29-404	29-343	29-402	29-465	42.46	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	48.48	10-7		
7	29-573	29-616	29-600	29-549	29-497	29-457	42.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	45.44	1-4		
8	29-381	29-353	29-378	29-446	29-569	29-631	43.44	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	44.42	0-5	4.30 to 11 a.m., heavy rain.	
9	29-667	29-653	29-596	29-540	29-471	29-425	36.43	44.44	44.44	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	43.43	9-0		
10	29-321	29-242	29-278	29-376	29-481	29-544	44.45	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	4-5		
11	29-536	29-413	29-317	29-311	29-329	29-429	41.42	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	5-9	Noon, fast scud from N.	
12	29-567	29-753	29-863	29-945	30-005	30-065	40.43	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	45.45	6-9	Wind all round the compass.	
13	30-101	30-113	30-091	30-073	30-057	30-012	38.46	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	50.50	10-5		
14	29-925	29-841	29-710	29-601	29-541	29-507	41.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	44.43	2-7	
15	29-501	29-504	29-526	29-553	29-497	29-367	39.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	51.49	11-3		
16	29-301	29-326	29-480	29-630	29-781	29-874	46.52	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	59.49	11-5		
17	29-960	30-003	30-025	30-040	30-053	30-059	42.46	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	49.47	12-8	Swell coming from N.E. all day. Midt., heavy dew.	
18	30-058	30-070	30-045	30-027	30-003	29-975	41.44	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	48.46	12-0	3.15 to 8.35 a.m., fog.	
19	29-925	29-843	29-728	29-643	29-536	29-533	43.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	44.44	3-3	4 a.m., slow scud from N.E. Noon, fast scud from E.	
20	29-503	29-464	29-361	29-322	29-398	29-457	44.46	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	52.48	2-1	Noon, fast scud from N.	
21	29-479	29-509	29-543	29-538	29-503	29-456	41.49	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	54.53	12-7		
22	29-379	29-302	29-231	29-203	29-265	29-201	45.47	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	47.56	8-4	Noon, fast scud from N.	
23	29-046	28-934	28-840	28-893	29-001	29-097	47.49	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	51.45	8-3	Midt., slow scud from W.	
24	29-188	29-233	29-283	29-348	29-445	29-505	43.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	51.50	10-3		
25	29-546	29-573	29-591	29-604	29-610	29-610	41.46	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	48.47	12-9		
26	29-609	29-648	29-650	29-604	29-550	29-460	45.48	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	50.49	9-2		
27	29-322	29-131	28-987	29-018	28-967	28-981	45.46	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	49.45	0-8		
28	29-013	29-027	29-018	29-013	29-008	29-027	42.43	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	46.46	7-5		
29	29-171	29-341	29-423	29-520	29-609	29-660	41.41	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	43.42	9-0		
30	29-703	29-745	29-771	29-779	29-793	29-796	38.40	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	40.41	0-1		
Means.	29-582	29-572	29-567	29-561	29-574	29-577	42-0	44-9	47-2	46-2	43-4	42-5	4-4	5-2	4-9	4-7	4-4	7-4	7-2	7-2	7-0	6-7	6-5	6-3	6-5	6-3	6-5	6-3	6-3	0-3	

Days.	Barometer.					Air Temperature.				Wind.					Amount of Cloud.				Sun-shine.	Remarks.						
	4	8	Noon.	4	8	Midt.	in.	in.	in.	in.	in.	4	8	Noon.	4	8	Midt.	4			8	N.	4	8	M.	
1	29.800	29.805	29.797	29.744	29.727	29.753	in.	in.	in.	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	°	hrs. 0.1	
2	29.755	29.802	29.821	29.802	29.797	29.807						40	43	44	44	42	42	42	42	42	42	42	42	42	7.3	
3	29.769	29.726	29.681	29.606	29.565	29.535						44	46	45	46	45	43	43	43	43	43	43	43	43	2.1	
4	29.515	29.533	29.533	29.539	29.607	29.660						42	41	43	42	41	41	41	41	41	41	41	41	41	0.0	Heavy ground sea from N.E. all day.
5	29.722	29.805	29.892	29.932	30.000	30.022						41	42	43	42	42	41	41	41	41	41	41	41	41	1.2	
6	30.019	30.006	29.977	29.921	29.883	29.792						40	45	48	47	45	44	44	44	44	44	44	44	44	6.9	
7	29.688	29.654	29.640	29.615	29.569	29.501						44	46	48	45	42	42	42	42	42	42	42	42	42	7.4	
8	29.490	29.522	29.611	29.638	29.634	29.621						40	42	44	45	43	43	43	43	43	43	43	43	43	7.1	
9	29.603	29.607	29.603	29.581	29.546	29.481						44	48	49	48	47	45	45	45	45	45	45	45	45	3.4	
10	29.426	29.400	29.358	29.330	29.346	29.413						44	45	48	47	44	43	43	43	43	43	43	43	43	5.0	Noon., passing hail showers. 4 p.m., fast scud from W.
11	29.461	29.550	29.663	29.828	29.922	30.019						43	43	42	42	41	39	39	39	39	39	39	39	39	2.2	Noon, passing showers of hail and sleet.
12	30.054	30.083	30.051	29.956	29.860	29.799						40	40	43	43	45	45	45	45	45	45	45	45	45	0.0	
13	29.773	29.818	29.869	29.907	29.938	29.945						44	44	45	45	43	42	42	42	42	42	42	42	42	2.9	
14	29.936	29.921	29.859	29.802	29.731	29.727						42	48	53	51	46	47	46	46	46	46	46	46	46	11.1	8 p.m., fast scud from N.
15	29.676	29.693	29.681	29.637	29.518	29.492						48	53	58	49	48	49	48	48	48	48	48	48	48	11.8	5.30 to 10 p.m., fog.
16	29.492	29.595	29.648	29.701	29.785	29.827						49	50	53	52	49	45	45	45	45	45	45	45	45	9.1	
17	29.850	29.856	29.832	29.818	29.855	29.843						45	52	57	53	49	47	47	47	47	47	47	47	47	3.9	
18	29.837	29.852	29.840	29.820	29.802	29.763						45	48	51	50	48	44	44	44	44	44	44	44	44	10.1	
19	29.745	29.691	29.649	29.583	29.555	29.463						44	51	50	48	46	46	46	46	46	46	46	46	46	12.5	
20	29.446	29.423	29.413	29.434	29.475	29.503						45	45	47	46	45	43	43	43	43	43	43	43	43	1.4	Midt., ground sea from E.
21	29.515	29.547	29.567	29.568	29.593	29.607						43	45	45	44	43	41	41	41	41	41	41	41	41	1.5	
22	29.599	29.593	29.584	29.575	29.551	29.529						41	43	46	45	44	44	44	44	44	44	44	44	44	1.1	
23	29.526	29.547	29.580	29.575	29.572	29.569						44	46	46	44	44	43	43	43	43	43	43	43	43	0.4	
24	29.575	29.645	29.640	29.625	29.606	29.572						42	41	46	46	45	46	45	45	45	45	45	45	45	0.2	
25	29.546	29.564	29.480	29.414	29.390	29.329						46	46	50	49	47	46	46	46	46	46	46	46	46	3.6	8 p.m., fast scud from W. Midt., very heavy rain.
26	29.245	29.177	29.257	29.383	29.511	29.594						45	46	45	43	41	40	40	40	40	40	40	40	40	10.3	4 a.m., steady rain.
27	29.672	29.741	29.791	29.809	29.831	29.836						40	42	43	42	41	42	41	41	41	41	41	41	41	3.6	4 a.m., passing showers of hail.
28	29.773	29.705	29.652	29.637	29.618	29.576						43	46	55	49	48	47	47	47	47	47	47	47	47	2.4	
29	29.571	29.604	29.650	29.653	29.693	29.688						47	48	49	50	47	47	47	47	47	47	47	47	47	4.0	
30	29.677	29.702	29.694	29.704	29.734	29.763						47	48	49	48	47	45	45	45	45	45	45	45	45	5.2	
31	29.800	29.856	29.888	29.878	29.886	29.857						45	48	48	48	47	46	46	46	46	46	46	46	46	2.1	
Means.	29.663	29.678	29.683	29.678	29.681	29.674		43.5	45.7	47.7	46.4	44.8	43.9	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	4.5	

RESULTS
OF THE
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RESULTS

OF THE

METEOROLOGICAL OBSERVATIONS

TAKEN DURING THE

SCOTTISH NATIONAL ANTARCTIC EXPEDITION.

THIS portion dealing with the results of the Expedition may be divided into four parts. The first treats of the observations taken at sea south of 30° S., with more especial reference to those made in the Antarctic cruises, when hourly readings were taken; the second has reference to the climatology of the South Orkneys, and is based on the observations taken at the wintering station of the "Scotia" from April to October 1903, and thereafter at the land station at Omond House. On 22nd February 1904 this station was taken over by the Argentine Government, the observations being continued under the auspices of the Argentine Meteorological Office. I am indebted to Mr WALTER G. DAVIS, Director of this Department, for permission to use the data so far as published from 22nd February to 31st March 1904 in order to complete a year's observations at the land station, and further to utilise the second year's observations* for some investigations into the meteorology of the South Orkneys as compared with other Antarctic and sub-Antarctic stations, and with those taken on the "Scotia" during her second southern cruise in March and April 1904. The third portion of this report relates to the observations taken at the sub-Antarctic base station at Cape Pembroke, Falkland Islands, during the years 1903 and 1904. A short and general summary of the meteorology of the Weddell quadrant and adjacent areas concludes the paper. I have to express my cordial thanks to Mr R. T. OMOND for his assistance in correcting the proofs of this part of the report, as well as for his advice and criticism during its preparation.

* See *Anales de la Oficina Meteorológica Argentina*, by WALTER G. DAVIS, tome xvi.

OBSERVATIONS TAKEN AT SEA.

THE data under discussion are derived from the hourly observations made during the two summer cruises of the "Scotia" in 1903 and 1904. The ice conditions in these two seasons differed considerably. Thus in the summer of 1903 pack ice was met with in $60^{\circ} 20'$ S. long. $43^{\circ} 50'$ W., which quite filled the Weddell Sea south of 60° S. and to the west of 28° W., as far as Graham's Land. In the following summer there is reason to believe that the sea was clear, at least to the north of the Antarctic Circle early in December, and except for a stream of ice in 66° S. and 30° W. no obstacle was met with by the "Scotia" until near Coats' Land, in $72^{\circ} 18'$ S. long. $17^{\circ} 59'$ W. It is not at all unlikely that the western part of the Weddell Sea is, in normal summers, covered with ice south of 65° S., as ROSS, D'URVILLE and POWELL were unable to penetrate the pack found to the south of the circle. From the observations made at the South Orkneys, the summers of 1902-03, 1904-05, and 1906-07 were cold, the islands being practically ice-bound at the beginning of the year, while in the summers of 1903-04 and 1905-06 the ice cleared away early in the season. It will thus be seen that many years' observations will be necessary before isothermal lines can be drawn with accuracy south of 60° S.; although by combining the existing data a tolerable approximation to the truth may be obtained, especially for the summer months.

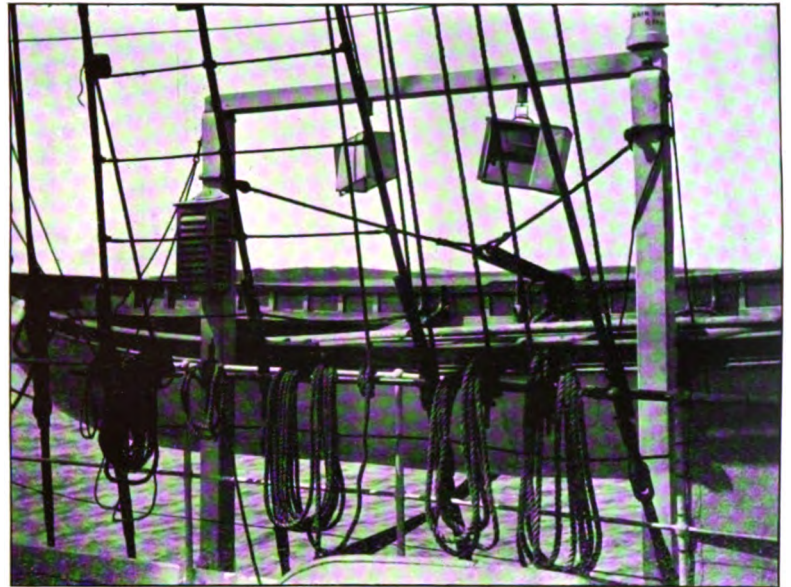
The following tables show the meteorological characteristics deduced for the area under consideration from observations made during the two summer cruises of the "Scotia." Mean values are given for short periods as well as for the months. The approximate mean position of the ship for February 1903 and March 1903 and 1904 was $66^{\circ} 06'$ S. long. $29^{\circ} 28'$ W. For these three months the mean barometric pressure corrected to 32° and sea level and to standard gravity at lat. 45° was 29.071 inches, the highest being 29.773 inches on 12th March 1904, and the lowest 28.194 inches on the 27th of the same month, showing a range of 1.579 inch. For ten-day periods the highest was 29.262 inches during the ten days ending with 20th March 1904, and the lowest 28.864 inches in the ten days immediately preceding, the difference being 0.398 inch.

Taking the available means from stations in the Weddell Sea and at the base station at the Falklands, and applying all the corrections, including that for standard gravity, we obtain the following comparative means:—

Meteorological Observations of Scottish National Antarctic Expedition.



Meteorological Instruments ashore at Omond House,
Scotia Bay.



Meteorological Instruments on board the "Scotia."



The "Scotia" in Winter, in Scotia Bay.



The "Scotia" in Autumn, off Coat's Land.

	Weddell Sea.		Snow Hill.		C. Pembroke.	
	Lat.	Long.	Lat.	Long.	Lat.	Long.
February 1903	64° 00' S.	29° 45' W.	64° 22' S.	57° 00' W.	51° 41' S.	57° 42' W.
	29·112 inches.		29·048 inches.		29·438 inches.	
March 1903	64° 01' S.	40° 52' W.	28·961 inches.		29·318 inches.	
	29·035 inches.					
	Weddell Sea.		Port Charcot.	South Orkneys.	C. Pembroke.	
	Lat.	Long.	Lat.	Long.	Lat.	Long.
March 1904	70° 18' S.	40° 52' W.	65° 03' S.	63° 26' W.	60° 44' S.	44° 39' W.
	29·066 inches.		28·980 inches.		29·147 inches.	
					29·498 inches.	

From the observations of these summer months it is clear that at this season barometric pressure is lower over Graham's Land than over the ocean to the east.

The mean temperature of the three months under consideration was 25°·9, the absolute maximum being 33°·8 on 2nd February 1903 and 24th March 1903, and the minimum -0·3 on 12th March 1904, the extreme range being thus 34°·1. The mean daily range for this period was 5°·1, the greatest observed being 19°·4 on 12th March 1904, while March 11th had a range of 15°·8, and March 10th 15°·0, these being the only days in the three months with a range of 15° or more. The mean daily variability of temperature was 2°·2. Comparing the mean temperature recorded at the other places, we obtain the following values:—

	Weddell Sea.		Snow Hill.		C. Pembroke.	
	Lat.	Long.	Lat.	Long.	Lat.	Long.
February 1903	64° 00' S.	29° 45' W.	64° 22' S.	57° 00' W.	51° 41' S.	57° 42' W.
March 1903	27°·8		25°·7		47°·6	
	25°·0		11°·5		45°·5	
	Weddell Sea.		South Orkneys.	Port Charcot.	C. Pembroke.	
	Lat.	Long.	Lat.	Long.	Lat.	Long.
March 1904	70° 18' S.	40° 52' W.	60° 44' S.	44° 39' W.	65° 03' S.	63° 26' W.
	25°·0		32°·4		29°·8	
					45°·4	

It will be observed how much colder it was at Snow Hill than over the ocean to the east, the great difference of 13°·5 being recorded in March between the two places.

The mean wind force was only 2·4 in the Weddell Sea, and gales were uncommon, there being an average of only 33 hours of gale force.

The mean amount of cloud was 9·1, and 81 per cent. of the whole time the sky was overcast, while the percentage of cloudless hours was only 3.

Comparing the cloud amount, overcast sky or fog being equal to 10·0, we have the following values :—

	Weddell Sea.		Snow Hill.		C. Pembroke.	
	Lat.	Long.	Lat.	Long.	Lat.	Long.
February 1903 . . .	64° 00' S.	29° 45' W.	64° 22' S.	57° 00' W.	51° 41' S.	57° 42' W.
March 1903 . . .		9·1		7·6		6·5
		9·5		8·6		6·4

	Weddell Sea.		South Orkneys.		Port Charcot.		C. Pembroke.	
	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat.	Long.
March 1904 . . .	70° 18' S.	40° 52' W.	60° 44' S.	44° 39' W.	65° 03' S.	63° 26' W.	51° 41' S.	57° 43' W.
		8·8		9·2		7·9		6·8

From the above it is evident that the Weddell Sea is very cloudy when compared with lower latitudes and with Graham's Land. Indeed, for days together the sky was uniformly covered with a pallium of stratus.

With regard to the winds, the most frequent direction was N.E. with 16 per cent. of the whole, closely followed by N. with 15 per cent. Taking the combined observations, it cannot be said that there was any marked excess of one direction over another; but an examination of the values for short periods will show very clearly that easterly winds prevail in the Weddell Sea south of the Antarctic Circle, while north of 62°–64° the north-westerly wind system is entered.

The relative humidity, 83 per cent., is comparatively low, and complete saturation is not frequent. It is of interest to note that very low humidities were met with on 12th and 13th March, when the "Scotia" was beset off Coats' Land. On the former day the mean was only 18 per cent., and at some hours as low as 11 per cent.

With regard to precipitation, it is, as one would expect, nearly all in the form of snow; sleet, rain, and hail being uncommon. No definite statement can be made regarding the quantity precipitated, but the amount is certainly very small. It is interesting to note that lightning was observed on 16th March 1904 in lat. 71° 28' S. long. 22° 32' W.

Climatic Features of the Winds in the Weddell Sea.

The following table shows the mean barometric pressure, temperature, etc., experienced with each wind direction in the Weddell Sea between the meridians of 47° and 11° W. Except for a few days in February 1903 the data refer to a region south of 60° S. The periods discussed were from 2nd February to 26th March 1903, and from 23rd February to 31st March 1904.

	Mean Pressure.	Tempera- ture.	Cloud. 0-10.	Wind Force. 0-12.	Relative Humidity. Sat. = 100.	Vapour Tension.	Wind.	
							No. of Observa- tions.	Per cent.
	Inches.					Inches.		
N	29·014	28·9	9·7	2·5	85·6	·138	226	10·3
NNW	28·975	29·0	9·7	2·3	88·2	·144	112	5·1
NW	28·898	27·5	9·4	2·4	85·9	·131	183	8·4
WNW	28·986	25·7	9·3	2·8	84·7	·121	71	3·2
W	29·069	27·3	8·9	3·0	83·5	·126	170	7·8
WSW	29·098	25·7	8·3	2·3	71·7	·118	79	3·6
SW	28·911	26·5	8·5	2·1	74·3	·113	198	9·1
SSW	29·100	22·3	8·7	2·2	75·5	·096	76	3·5
S	29·184	22·0	8·0	1·7	79·9	·097	125	5·7
SSE	29·012	24·4	8·5	2·2	82·6	·110	59	2·7
SE	28·903	25·6	9·0	2·1	82·7	·115	104	4·8
ESE	28·817	26·7	9·3	2·7	82·3	·120	70	3·2
E	28·865	25·7	9·4	3·5	84·4	·119	127	5·8
ENE	28·966	25·6	9·6	3·2	85·5	·113	113	5·2
NE	29·070	26·9	9·4	2·4	84·7	·128	231	10·6
NNE	29·099	28·0	9·7	2·3	86·6	·135	115	5·3
Calm	29·181	23·5	9·5	...	79·1	·098	125	5·7
Mean	29·009	26·4	9·1	2·5	82·8	·121	2184	100·0

Comparing the above values with the mean, we obtain the following for the effect of the different winds :—

	N.	NNW.	NW.	WNW.	W.	WSW.	SW.	SSW.	S.	SSE.	SE.	ESE.	E.	ENE.	NE.	NNE.	Calm.
Pressure, . . .	+·005	-·034	-·011	-·023	+·060	+·089	-·098	+·091	+·175	+·003	-·106	-·192	-·244	-·043	+·061	+·090	+·172
Temperature, . .	+2·5	+2·6	+1·1	-0·7	+0·9	-0·7	+0·1	-4·1	-4·4	-2·0	-0·8	+0·8	-0·7	-0·7	+0·5	+1·6	-2·9
Humidity, . . .	+2·8	+5·4	+3·1	+1·9	+0·7	-11·1	-8·5	-7·3	-3·3	-0·2	-0·1	-0·4	+1·6	+2·7	+1·9	+8·8	-3·7
Vapour tension, .	+·017	-·023	+·010	-·000	+·005	-·003	-·008	-·025	-·024	-·011	-·006	-·001	-·002	-·008	+·007	+·014	-·023
Cloud, . . .	+0·6	+0·6	+0·3	+0·2	-0·3	-0·8	-0·6	-0·4	-1·1	-0·6	-0·1	+0·2	+0·3	+0·5	+0·3	+0·6	-1·6
Wind force, . .	0·0	-0·2	-0·1	+0·8	+0·5	-0·2	-0·4	-0·3	-0·8	-0·3	-0·4	+0·2	+1·0	+0·7	-0·1	-0·2	...

The following table shows the extreme values :—

	Pressure.	Temperature.	Cloud.	Wind Force.	Relative Humidity.	Vapour Pressure.
Highest .	Inches S 29·184	NNW 29·0	N NNW } 9·7 NNE }	E 3·5	NNW 88·2	NNW ·144
Lowest .	ESE 28·817	S 22·0	S 8·0	S 1·7	WSW 71·7	SSW ·096
Range .	0·367	7·0	1·7	1·8	16·5	·048

Looking at the broad results, it will be seen that the characteristic features of *Northerly* winds are a pressure a little in excess of the normal, with a high temperature and humidity, cloudy skies, and a wind force of normal strength.

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Westerly winds have a pressure and temperature closely approximating to the average, with a low humidity, cloud less than the average, and wind force also in close agreement with the normal.

Southerly winds have a high pressure and are light in force, have a very low temperature and humidity, and are accompanied by a relatively small amount of cloud.

Easterly winds are strong, with a low barometric pressure, much cloud, and the humidity in excess of the normal.

With *Calms* pressure is high, but temperature, humidity, and cloud are all much below the average. (See Plate I.)

Diurnal Range in the Weddell Sea and South Atlantic.

The following table shows the mean hourly values in the Weddell Sea for the months of February and March 1903 and March 1904, and in the South Atlantic for the month of April 1904 :—

SHOWING MEAN HOURLY VALUES OF PRESSURE, TEMPERATURE, AMOUNT OF CLOUD, WIND FORCE, RELATIVE HUMIDITY, AND VAPOUR PRESSURE IN THE WEDDELL SEA DURING FEBRUARY AND MARCH 1903 AND MARCH 1904, AND IN THE SOUTH ATLANTIC IN APRIL 1904.

BAROMETRIC PRESSURE AT 32° AND SEA LEVEL.

	Mdt.	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11	Mdt.	Mean.	Range.
1903.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
February	29.075	.073	.069	.065	.053	.050	.062	.066	.066	.068	.074	.078	.081	.087	.084	.083	.085	.086	.088	.087	.088	.086	.085	.083	.077	29.076	.035
March	29.000	.999	.999	.998	.992	.990	.990	.993	.989	.994	.991	.987	.978	.986	.981	.980	.981	.984	.987	.991	.995	.996	.996	.996	.995	28.989	.021
1904.																											
March	29.026	.025	.022	.019	.013	.010	.011	.012	.012	.012	.015	.013	.011	.014	.010	.008	.006	.007	.007	.005	.995	.996	.996	.997	.996	29.009	.030
Mean	29.034	.032	.030	.027	.019	.019	.021	.024	.022	.025	.027	.026	.023	.029	.025	.024	.024	.026	.027	.028	.026	.026	.026	.025	.023	29.025	.013
April	29.517	.514	.509	.508	.499	.501	.503	.513	.538	.547	.552	.556	.554	.534	.528	.524	.528	.531	.529	.543	.554	.558	.563	.569	.567	29.535	.070

MEAN AIR TEMPERATURE.

		1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11			
1903.																											
February	27.6	27.4	27.4	27.2	27.2	27.1	27.3	27.4	27.8	27.8	27.9	28.1	28.2	28.5	28.6	28.6	28.6	28.5	28.3	28.1	27.8	27.7	27.5	27.4	27.3	27.8	1.5
March	25.2	25.2	25.1	25.1	25.0	24.9	25.0	25.0	25.0	25.2	25.1	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.0	24.8	24.8	24.7	24.8	24.7	24.8	25.0	0.6
1904.																											
March	24.5	24.1	24.2	24.4	24.3	24.2	24.6	24.9	25.3	25.5	25.5	25.7	25.9	26.0	25.9	25.6	25.5	25.4	25.3	25.1	24.9	24.7	24.8	24.5	24.6	25.0	1.9
Mean	25.8	25.6	25.6	25.6	25.5	25.4	25.6	25.8	26.0	26.2	26.2	26.3	26.4	26.6	26.6	26.5	26.4	26.4	26.2	26.0	25.8	25.7	25.7	25.6	25.5	25.9	1.2
April	43.1	42.8	42.8	42.8	42.7	42.7	42.7	42.8	42.8	43.0	43.2	43.4	43.8	43.8	43.9	43.8	43.8	43.7	43.8	43.9	43.6	43.4	43.5	43.5	43.6	43.3	1.2

MEAN AMOUNT OF CLOUD 0-10.

		1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11			
1903.																											
February	9.5	9.3	9.4	9.2	9.0	9.0	9.1	9.2	9.2	9.0	9.3	9.2	9.5	9.2	8.7	8.7	8.4	8.4	9.1	8.7	9.1	8.9	9.4	9.2	9.5	9.1	1.1
March	9.0	9.4	9.4	9.8	9.8	9.6	9.8	9.1	9.6	9.3	9.1	9.2	9.4	9.8	9.9	9.9	9.8	9.7	9.9	9.9	9.7	9.4	8.9	9.4	9.0	9.5	1.0
1904.																											
March	8.3	7.5	7.9	8.2	8.2	8.4	8.4	8.6	8.8	9.1	9.3	9.4	9.2	9.1	9.2	9.0	9.2	9.0	9.2	9.4	9.1	8.7	9.0	8.0	8.3	8.8	1.9
Mean	8.9	8.7	8.9	9.1	9.0	9.0	9.1	9.0	9.2	9.1	9.2	9.3	9.4	9.4	9.3	9.2	9.1	9.0	9.4	9.3	9.3	9.0	9.1	8.9	8.9	9.1	0.5
April	7.7	7.7	7.4	7.4	6.9	7.3	7.4	7.1	7.9	8.2	7.7	8.0	7.1	7.6	7.6	8.4	8.2	7.9	7.7	7.4	7.4	7.7	8.4	7.9	7.7	7.7	1.3

MEAN WIND FORCE 0-12.

		1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11			
1903.																											
February	1.93	1.93	1.98	1.89	2.02	2.00	1.95	2.02	1.39	1.59	1.54	1.61	1.73	1.82	1.62	1.71	1.61	1.80	1.77	1.71	1.82	1.88	2.04	1.96	1.91	1.80	0.65
March	3.06	2.92	2.68	2.58	2.29	2.23	2.23	2.48	2.02	2.19	2.16	2.39	2.27	2.56	2.47	2.68	2.56	2.69	2.63	2.60	2.82	2.77	2.76	2.79	3.03	2.53	1.01
1904.																											
March	2.77	2.85	2.85	2.82	2.66	2.71	2.68	2.58	2.60	2.65	2.50	2.60	2.63	2.55	2.53	2.68	2.73	2.74	2.79	2.94	3.05	2.87	2.90	3.14	3.08	2.76	0.64
Mean	2.59	2.57	2.50	2.43	2.32	2.31	2.29	2.36	2.00	2.14	2.07	2.20	2.21	2.31	2.21	2.36	2.40	2.41	2.40	2.42	2.56	2.51	2.57	2.63	2.67	2.36	0.67
April	4.27	4.23	4.05	3.95	3.75	4.00	3.70	3.73	3.70	3.77	3.83	3.78	3.73	3.67	3.80	4.00	3.85	3.63	3.83	4.02	3.97	4.10	4.10	4.07	4.03	3.39	0.56

MEAN RELATIVE HUMIDITY. SATURATION=100.

	Mdt.	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11	Mdt.	Mean.	Range.
1903.																											
February	84.8	85.1	85.2	86.4	85.9	85.4	83.9	83.8	82.9	81.2	80.1	81.2	80.9	81.0	81.6	81.0	80.5	80.0	79.5	80.9	82.6	82.6	83.8	83.9	83.9	82.6	6.9
March	83.6	83.1	82.4	82.6	84.2	83.7	83.0	83.8	84.9	84.6	83.6	82.9	80.3	81.1	80.8	81.1	81.9	81.3	84.6	83.1	83.4	82.7	84.4	84.1	84.5	83.0	4.6
1904.																											
March	84.2	85.0	83.1	82.9	83.4	85.3	82.5	82.1	80.9	82.1	82.9	81.0	83.1	82.0	81.9	84.2	83.4	83.9	84.2	85.6	85.3	87.5	85.8	86.6	84.9	83.7	6.6
Mean	84.2	84.4	83.6	84.0	84.5	84.8	83.1	83.2	82.9	82.6	82.2	81.7	81.4	81.7	81.4	82.1	81.9	81.7	82.8	83.2	83.8	84.3	84.7	84.8	84.4	83.1	3.6
April	87.7	86.6	88.6	87.8	87.8	86.1	86.4	85.7	85.2	85.3	84.7	84.0	84.7	85.5	85.9	85.9	87.0	86.4	84.6	84.8	86.9	88.3	88.4	87.2	87.2	86.4	4.6

MEAN VAPOUR PRESSURE.

	Mdt.	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11	Mdt.	Mean.	Range.
1903.																											
February	130	130	130	130	130	128	128	129	128	127	125	128	129	130	131	131	130	129	126	127	128	126	127	128	127	128	006
March	116	116	114	114	116	115	114	115	117	118	116	115	113	113	113	114	114	113	116	113	113	113	115	115	115	115	006
1904.																											
March	115	116	115	115	116	119	115	117	115	117	118	117	120	119	118	121	120	120	119	119	118	120	118	115	117	118	006
Mean	120	121	120	120	121	121	119	120	120	121	120	120	121	121	121	122	121	121	120	120	120	120	120	119	120	120	008
April	252	250	254	249	248	244	245	244	243	245	246	247	251	253	256	256	259	256	253	253	257	257	260	256	259	252	017

Dealing with the mean values for the three months of observations in the Weddell Sea, we obtain the following departures from the mean of the day after applying the corrections for "midnight difference":—

	Pressure.	Temperature.	Cloud.	Wind Force.	Relative Humidity. Per cent.
	Inches.				
1	+0.002	-0.4	-0.4	+0.3	+1.4
2	0.000	-0.4	-0.2	+0.2	+0.6
3	-0.002	-0.4	0.0	+0.1	+1.0
4	-0.010	-0.5	-0.1	0.0	+1.5
5	-0.009	-0.6	-0.1	0.0	+1.8
6	-0.007	-0.4	0.0	0.0	+0.1
7	-0.004	-0.2	-0.1	0.0	+0.1
8	-0.005	0.0	+0.1	-0.3	-0.2
9	-0.002	+0.3	0.0	-0.2	-0.5
10	+0.001	+0.3	+0.1	-0.3	-0.9
11	0.000	+0.4	+0.2	-0.2	1.4
Noon	-0.002	+0.5	+0.3	-0.2	-1.7
1	+0.004	+0.7	+0.3	-0.1	-1.4
2	+0.001	+0.7	+0.2	-0.2	-1.7
3	0.000	+0.6	+0.1	0.0	-1.0
4	+0.001	+0.5	0.0	-0.1	-1.2
5	+0.003	+0.6	-0.1	0.0	-1.4
6	+0.005	+0.4	+0.3	0.0	-0.3
7	+0.006	+0.2	+0.2	0.0	0.0
8	+0.004	0.0	+0.2	+0.2	+0.6
9	+0.005	-0.1	-0.1	+0.1	+1.1
10	+0.005	-0.1	0.0	+0.2	+1.5
11	+0.005	-0.2	-0.2	+0.2	+1.6
Mdt.	+0.003	-0.3	-0.2	+0.3	+1.2

It will be seen that the pressure curve shows a defined minimum at 4 A.M., and a maximum at 7 P.M. The morning maximum and afternoon minimum are feebly

marked. Temperature shows a minimum at 5 A.M. falling $0^{\circ}6$ below the mean of the day, and a maximum at 1 and 2 P.M. exceeding the mean of the day by $0^{\circ}7$, there being thus a difference of $1^{\circ}3$ between the warmest and coldest hours. The diurnal variation in the amount of cloud is somewhat irregular, but, speaking broadly, there is an excess from 8 A.M. to 8 P.M., while during the other hours cloud is in defect. The wind force is greatest during the night and least during the day, being highest from 10 P.M. to 2 A.M. and lowest from 8 A.M. to 2 P.M. The daily range in relative humidity is well shown, the maximum being recorded at 5 A.M. and the minimum at noon and 2 P.M. As there is no variation in the vapour tension, the values are not given.

During the second Antarctic cruise of the "Scotia" the conditions affecting the diurnal range of the elements differed considerably from time to time, as the range in latitude was very great. I have accordingly computed mean hourly values for different groups of days, in which the mean position varied from over 72° S. to as low as 40° S., taking out the departure of each hour from the daily mean, and further smoothing the results by continuous three-hour groups in order to eliminate the more pronounced irregularities due to the shortness of the periods. In one case, viz., in the barometric means for the ten days 11th to 20th April, it was necessary to discard the observations for 15th April, as a remarkably deep V-shaped depression occurred on the afternoon of that day which enormously intensified the afternoon minimum of pressure for the ten-day period. The values given for this element are thus the mean of nine days.

It is of interest to note the values for the period 11th to 20th March, during which the continental influence exerted by the proximity of Coats' Land is clearly shown. This is most pronounced in the case of the temperature curve, the difference between the smoothed hourly values being $3^{\circ}3$, or nearly twice as great as during any other period discussed and three times greater than during the preceding ten-day period. The pressure curve strongly resembles that of the South Orkneys in the long-drawn-out morning minimum and the very pronounced evening maximum, which are so characteristic of the Scotia Bay Station at a time when these islands, owing to the freezing up of the sea to the south, are essentially subject to conditions of a continental character. The diurnal range of cloud and wind force is also very pronounced, and both are of the type associated with extensive land masses.

In the South Atlantic, during April 1904, the double maximum and minimum of pressure is well shown. The morning minimum occurs at 5 A.M., after which pressure rises till 11 A.M., the afternoon minimum occurs at 5 P.M., and the evening maximum at 11 P.M. Temperature is above the mean from 10 A.M. to 8 P.M., the minimum occurring about 6 A.M. and the maximum at 1 and 2 P.M. The wind force is least about 7 A.M. and greatest at 10 P.M. Relative humidity shows a double period, the principal minimum taking place at 11 A.M. and a secondary at 6 P.M., while the maximum is reached at 10 P.M., with another small maximum about 4 P.M. The vapour pressure shows a well-pronounced morning minimum and a small secondary minimum at 6 P.M., while there are two maxima, one about 3 P.M. and the other at 10 P.M. (See Plate V.)

VOL. II.

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SUMMARY OF METEOROLOGICAL OBSERVATIONS MADE IN THE WEDDELL SEA AND SOUTH ATLANTIC, 1903-1904.

Period.	Mean S. Lat.	Mean W. Long.	Mean Pres- sure.*	Mean Temp.	Mean Max. Temp.	Mean Min. Temp.	Mean Daily Range.	Mean Wind Force. 0-12.	Mean Miles per hour.	Mean Amount of Cloud. 0-10.	Mean Relative Humidity. Sat.=100.	Mean Vapour Pres- sure.	Mean Sea Surface Temp.	Winds.							Calm or Var.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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* Corrected to 32° and Sea Level and to Standard Gravity at Lat. 45°.

† The data are derived from hourly observations taken during the various cruises between the South Orkneys and Buenos Aires, and during the outward and homeward voyages.

SHOWING THE DEPARTURE FROM THE MEAN OF THE DAY OF HOURLY VALUES OF PRESSURE, TEMPERATURE, AMOUNT OF CLOUD, WIND FORCE, AND RELATIVE HUMIDITY. WEDDELL SEA AND SOUTH ATLANTIC—FEBRUARY TO APRIL 1904.

NOTE.—The heavy type indicates above the mean, and the italic type below the mean.

BAROMETRIC PRESSURE.—Thousandths of an inch.

Period.	Mean S. Lat.	Mean W. Long.	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11	Mdt.	Mean.
February 23-29 .	65 06	33 41	0	2	4	3	2	0	0	1	2	2	1	0	2	4	5	5	1	2	5	6	7	6	4	1	Ina. 29.128
March 1-10 .	72 39	21 13	0	2	5	6	8	7	3	3	9	13	13	10	7	3	0	3	3	5	8	10	6	1	6	3	28.853
" 11-20 .	72 16	20 38	1	2	3	5	4	3	2	3	4	5	4	1	4	5	1	0	3	7	7	6	2	2	0	1	29.262
" 21-31 .	66 22	12 07	2	1	3	8	11	10	9	7	5	3	3	2	0	4	7	11	12	16	8	5	0	0	1	1	29.080
April 1-10 .	54 50	10 48	18	23	27	24	25	18	7	9	21	28	31	23	15	7	6	1	4	6	4	1	2	6	4	4	29.282
" 11-20 .	45 32	9 36	13	5	4	16	16	14	2	13	24	27	31	25	13	6	12	15	18	19	17	9	3	1	3	6	29.584
" 21-30 .	40 15	3 34	1	2	9	15	18	15	6	3	13	17	15	9	2	0	1	0	5	5	2	4	9	9	7	1	29.795

TEMPERATURE.—Tenths of degrees F.

February 23-29 .	65 06	33 41	1	3	4	4	4	5	5	5	3	0	3	5	6	6	4	3	3	3	2	0	1	1	1	1	28.7
March 1-10 .	72 39	21 13	3	1	1	1	1	1	2	3	3	4	5	5	4	2	1	1	1	1	1	2	4	5	6	5	24.8
" 11-20 .	72 16	20 38	15	16	16	14	13	10	2	4	11	14	15	17	17	16	13	10	8	4	0	4	7	9	10	13	20.4
" 21-31 .	66 22	12 07	2	4	4	4	4	3	1	0	0	0	1	4	5	5	4	3	2	1	1	0	0	0	1	1	29.4
April 1-10 .	54 50	10 48	1	1	2	3	3	3	4	5	5	3	1	3	4	3	2	2	2	3	2	2	0	0	1	1	34.1
" 11-20 .	45 32	9 36	2	1	0	2	4	5	7	6	6	4	2	1	1	0	2	3	5	6	6	5	2	1	2	2	44.2
" 21-30 .	40 15	3 34	5	5	5	5	4	3	1	2	4	5	7	9	11	11	8	5	2	0	3	6	7	7	6	6	51.7

CLOUD.

February 23-29 .	65 06	33 41	13	9	3	4	8	9	9	12	11	8	5	5	8	11	14	7	1	8	5	8	11	19	19	16	Amt. 0-10 8.2
March 1-10 .	72 39	21 13	2	3	0	4	8	9	10	8	5	0	2	2	2	4	6	7	7	6	5	2	1	1	0	1	9.3
" 11-20 .	72 16	20 38	10	10	6	3	1	0	3	5	7	6	5	6	6	4	2	2	3	0	3	2	1	1	1	8	8.5
" 21-31 .	66 22	12 07	16	17	11	6	3	0	2	5	8	10	10	7	5	3	4	4	7	7	7	5	3	3	7	15	8.4
April 1-10 .	54 50	10 48	3	4	7	6	4	4	4	2	4	4	4	4	6	5	2	5	9	7	3	1	3	6	4	0	7.7
" 11-20 .	45 32	9 36	2	5	9	11	11	8	6	3	0	2	0	3	5	12	11	9	4	1	1	3	0	0	3	1	8.1
" 21-30 .	40 15	3 34	4	3	3	2	2	3	3	3	3	5	1	3	6	1	2	0	6	9	10	3	0	4	3	4	7.3

WIND FORCE.—Tenths of Miles per Hour, e.g., 14=1.4 miles per hour.

February 23-29 .	65 06	33 41	0	5	6	9	15	11	4	16	30	31	19	2	3	9	2	8	9	11	3	3	3	3	3	0	Miles per hour. 10.4
March 1-10 .	72 39	21 13	13	9	12	18	20	4	10	28	37	38	36	29	26	23	18	6	10	23	33	30	25	19	19	20	27.4
" 11-20 .	72 16	20 38	10	8	6	25	39	37	33	13	4	8	7	9	6	5	10	3	5	5	14	13	11	9	9	10	9.5
" 21-31 .	66 22	12 07	28	33	33	37	39	40	32	20	6	10	19	23	32	32	34	20	28	24	22	16	16	5	11	25	20.5
April 1-10 .	54 50	10 48	14	11	26	13	18	11	12	4	7	4	8	5	13	8	3	12	12	11	2	1	5	16	20	14	34.7
" 11-20 .	45 32	9 36	9	5	11	23	31	35	29	18	14	6	7	5	4	5	8	5	14	2	23	38	36	32	29	22	51.7
" 21-30 .	40 15	3 34	38	38	18	20	11	7	26	36	38	32	34	34	25	10	5	13	18	11	8	20	31	33	29	35	20.9

RELATIVE HUMIDITY.—e.g., 39=3.9 per cent.

February 23-29 .	65 06	33 41	10	1	15	17	19	29	42	48	29	11	9	5	7	7	9	31	23	30	26	31	16	11	14	15	Per cent 78.9
March 1-10 .	72 39	21 13	19	28	25	31	17	2	18	0	6	3	22	32	36	23	11	6	13	11	3	7	21	38	24	19	86.6
" 11-20 .	72 16	20 38	12	15	31	31	37	39	39	34	26	27	28	31	24	16	14	14	12	15	45	78	83	82	69	47	77.2
" 21-31 .	66 22	12 07	3	0	2	15	29	31	8	17	23	14	13	15	20	12	11	9	3	2	6	8	26	29	30	11	87.1
April 1-10 .	54 50	10 48	9	15	24	19	15	6	1	4	13	25	33	25	10	4	1	1	0	1	1	4	5	7	8	6	90.0
" 11-20 .	45 32	9 36	9	6	11	3	3	0	0	7	5	6	2	5	1	1	3	7	8	25	34	13	12	23	22	9	86.5
" 21-30 .	40 15	3 34	12	10	8	0	10	17	21	18	20	18	20	17	17	11	2	2	2	1	11	25	35	27	17	9	82.4

METEOROLOGY OF THE SOUTH ORKNEYS.

THE discussion is based on the observations taken at the South Orkneys during the year ending 31st March 1904, the station being the winter quarters of the "Scotia" in Scotia Bay during the seven months April to October 1903, and thereafter at the land station at Omond House some 600 yards north-west of the wintering station. During the winter and until the "Scotia" was set free by the breaking up of the ice on 23rd November 1903, a large number of simultaneous observations were made on the ship and at the shore station; but, except as regards the direction of the wind, no appreciable difference was noted between the two stations. It may be observed that hourly means for some of the elements are not complete for the whole year, but in the discussion I have utilised all the data kindly sent by Mr DAVIS in the form of advance proof sheets. In some of the tables the means are grouped in seasons, these being: Spring (September, October, November), Summer (December, January, February), Autumn (March, April, May), and Winter (June, July, August).

BAROMETRIC PRESSURE.

The mean barometric pressure for the year ending March 1904 (corrected to 32° and mean sea level) was 29·213 inches, being highest (29·340 inches) in October 1903 and lowest (29·107 inches) in March 1904, thus showing a range of 0·233 inch in the monthly means. The following table gives particulars for the twelve months under review. The correction to standard gravity at Lat. 45° for pressures of 29·00 and 29·50 inches is +·038 inch; this has not been applied to any of the observations.

Month.	Mean Pressure.	Highest.	Date.	Lowest.	Date.	Range.
	Ins.	Ins.		Ins.		Ins.
1903.						
April	29·204	29·859	2	28·279	24	1·580
May	29·329	30·013	13	28·644	3	1·369
June	29·256	29·792	8	28·450	3	1·342
July	29·160	29·845	19	28·231	3	1·614
August	29·286	30·021	21	28·503	6	1·518
September . .	29·239	29·930	8	28·453	28	1·477
October	29·340	30·113	3	28·444	24	1·669
November . . .	29·118	29·885	18	28·338	14	1·547
December . . .	29·200	29·866	14	28·445	21	1·421
1904.						
January	29·158	29·554	16	28·624	23	0·930
February . . .	29·164	29·902	15	28·531	20	1·371
March	29·107	29·716	11	28·283	8	1·433
			October		July	
Means and Extremes .	29·213	30·113	3	28·231	3	1·882

Meteorological Observations of Scottish National Antarctic Expedition.



Landing-place in Scotia Bay for Omond House.



Lighthouse at Cape Pembroke, Falkland Islands—Scottish Sub-Antarctic Meteorological Station.



Omond House, Scotia Bay, in Winter.



Omond House, Scotia Bay, in Summer.

Hence the absolute highest pressure was 30·113 inches on 3rd October at 9 P.M. and the lowest 28·231 inches on 3rd July at noon. The monthly range is moderate, and was greatest (1·669 inch) in October 1903, and least (0·930 inch) in January 1904. The mean pressure varies but little with the season, the values being, Spring 29·232 inches, Summer 29·174 inches, Autumn 29·213 inches, and Winter 29·234 inches. In 1903 the conditions were eminently cyclonic and the islands were on the edge of the pack, but in 1904 the ice extended a long way to the north, which doubtless exerted a material influence on the pressure, probably through the course taken by cyclonic systems being different. The following are the monthly means after March 1904 :—

April.	May.	June.	July.	August.	September.	October.	November.	December.
Ins. 29·341	Ins. 29·361	Ins. 29·409	Ins. 29·294	Ins. 29·482	Ins. 29·416	Ins. 29·337	Ins. 29·582	Ins. 29·336

Comparing the seasonal means, it will be seen that the excess of pressure in 1904 as compared with 1903 was ·043 inch in Autumn, ·131 inch in Winter, and ·193 inch in Spring, the maximum excess in any month being in November, which had a pressure 0·464 inch higher than in the same month of 1903.

Taking seasonal means for each hour in the day, we obtain the following values :—

Hour.	Spring.	Summer.	Autumn.	Winter.	Year.
1 A.M.	29·237	29·171	29·199	29·238	29·211
2 "	·235	·165	·198	·234	·208
3 "	·234	·165	·195	·229	·206
4 "	·236	·167	·193	·218	·204
5 "	·234	·168	·194	·213	·202
6 "	·236	·170	·197	·211	·203
7 "	·237	·169	·197	·211	·204
8 "	·237	·168	·207	·221	·208
9 "	·237	·166	·215	·224	·211
10 "	·235	·164	·216	·225	·210
11 "	·233	·162	·215	·227	·209
Noon	·231	·163	·218	·229	·210
1 P.M.	·232	·167	·219	·234	·213
2 "	·229	·172	·218	·231	·212
3 "	·225	·173	·219	·232	·212
4 "	·223	·177	·223	·238	·215
5 "	·224	·182	·229	·247	·221
6 "	·225	·189	·231	·250	·224
7 "	·228	·191	·231	·252	·226
8 "	·231	·189	·230	·256	·226
9 "	·233	·190	·229	·254	·226
10 "	·234	·186	·222	·249	·223
11 "	·233	·183	·218	·247	·220
Midnight	·233	·180	·211	·243	·217
Mean	29·232	29·174	29·213	29·234	29·213
Range	·013	·028	·038	·045	·024

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The curves for each season and the year are shown graphically on Plate II. The annual curve is of a simple character, there being a long-drawn-out minimum, which is most pronounced at 5 A.M., and a well-marked evening maximum, which culminates about 8 P.M. This evening maximum is a conspicuous feature of the curves at all seasons, while the morning maximum is very feebly marked. Only in Spring does the morning maximum exceed the mean of the day. There is little doubt that the curves for Autumn and Winter will be very materially modified, as more years' observations are taken, the enormously deep morning minimum being largely due to the capricious occurrence of barometric minima, which may take place at any time, and which it will take many years' observations to wholly eliminate. Indeed, for the purpose of obtaining an approximation towards the true diurnal range, the year 1903, especially as regards the Autumn and Winter months, was one of the worst possible owing to the frequency of rapidly moving cyclonic systems.

BAROMETRIC PRESSURE AT 32° AND MEAN SEA LEVEL.

	Mdt.	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11	Mdt.	Mean.
1903.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
April .	29.208	205	203	198	192	193	194	191	201	203	200	193	194	194	193	192	200	211	215	223	225	226	217	216	208	29.204
May .	29.298	292	294	295	299	307	313	310	334	345	349	352	354	356	352	353	352	351	346	341	336	330	317	312	306	29.329
June .	29.256	265	252	250	243	243	244	244	256	259	262	266	265	265	259	253	253	260	260	259	263	260	256	254	250	29.256
July .	29.181	178	172	161	143	135	126	121	129	133	130	130	136	146	144	153	169	182	186	191	197	196	195	196	191	29.160
August .	29.287	282	279	276	267	261	262	267	277	281	282	286	285	291	289	291	292	299	305	305	307	305	295	290	288	29.286
September .	29.259	257	253	251	247	243	246	244	244	243	240	237	233	230	227	222	222	225	226	231	234	241	244	242	243	29.239
October .	29.336	336	338	340	345	347	350	356	355	355	353	351	347	344	338	331	329	325	326	329	331	332	329	331	331	29.340
November .	29.123	119	113	112	117	113	112	111	113	113	112	112	113	121	122	122	119	122	122	125	128	127	128	127	124	29.118
December .	29.201	199	198	198	203	203	205	204	202	197	195	190	189	189	190	190	193	196	204	211	212	212	210	208	204	29.200
1904.																										
January .	29.153	145	136	135	135	139	140	141	142	143	143	145	150	159	164	167	171	179	186	187	182	183	177	173	167	29.158
February .	29.170	168	162	161	162	162	164	162	159	158	153	152	151	154	162	161	167	172	176	176	174	174	172	167	170	29.164
March .	29.113	101	097	093	089	082	083	082	086	096	098	101	105	107	109	113	117	126	129	128	131	132	125	119	119	29.107
Year .	29.216	211	208	206	204	202	203	204	208	211	210	209	210	213	212	212	215	221	224	226	226	226	223	220	217	29.213

Diurnal Barometric Range in Clear and Cloudy Weather.

In order to ascertain the diurnal range of barometric pressure during clear and cloudy weather, the hourly values of pressure have been examined for the twenty-one months ending 31st December 1904.

For clear weather, days on which the mean cloud amount was 3.0 or less were selected for the Spring, Autumn, and Winter seasons; but as regards Summer, there was not a single day on which the amount of cloud fell below 6.5, so that the ten clearest days were taken for this season. The results for Summer are thus not quite comparable with those taken during other seasons of the year. For cloudy weather, days on which the sky was overcast at every hour of the day were selected. It is further to be noted that all days on which high or squally winds prevailed were rejected owing to the disturbing effect of the pumping of the barometer. The following values have been corrected for "midnight differences," and further smoothed by continuous three-hour groups. Thus the mean at 2 A.M. was derived from the average of 1, 2, and 3 A.M., the mean for 3 A.M. from 2, 3, and 4 A.M., and so on for each hour of the day. The following tables

summarise the results, which are expressed in hourly departures from the mean of the whole day, in thousandths of an inch, the heavy type indicating above the mean and the italic type below the mean. (See Plate II.)

CLEAR WEATHER.

Hour.	Spring (10 days).	Summer (10 days).	Autumn (7 days).	Winter (17 days).
1 A.M.	19	44	29	19
2 "	21	35	32	13
3 "	20	25	26	8
4 "	17	14	19	5
5 "	10	6	14	3
6 "	3	0	8	1
7 "	4	3	5	6
8 "	9	7	6	11
9 "	13	13	14	15
10 "	14	15	19	15
11 "	13	17	17	14
Noon	12	20	17	12
1 P.M.	11	23	10	10
2 "	10	26	7	7
3 "	8	24	6	6
4 "	7	24	8	6
5 "	7	22	10	7
6 "	7	19	13	6
7 "	6	11	13	4
8 "	5	3	12	0
9 "	2	8	8	4
10 "	4	23	2	11
11 "	12	40	8	18
Midnight	17	47	22	21
Mean Inches	29.653	29.353	29.712	29.625
Difference from Seasonal Average.	+0.421	+0.179	+0.499	+0.391

Hence the barometric curve in clear weather is of a simple character, with a single maximum and minimum, except in Autumn, when there is a double period. In Summer and Autumn the minimum falls much more below the average than the maximum exceeds it, but in Winter and Spring there is not much difference. The following are the hours of maxima and minima:—

	Maxima.	Minima.
Spring	+0.014 inch at 10 A.M.	-0.021 inch at 2 A.M.
Summer	+0.026 " " 2 P.M.	-0.047 " " Midnight.
Autumn	+0.019 " " 10 A.M.	-0.032 " " 2 A.M.
Winter	+0.013 " " 6 and 7 P.M.	+0.006 " " 3 P.M.
	+0.015 " " 9 and 10 A.M.	-0.021 " " Midnight.

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Pressure exceeds the mean of the whole day from 7 A.M. to 8 P.M., and is below it from 9 P.M. to 6 A.M., the maxima, speaking broadly, being during those hours when the temperature is above the average for the day, and the minima when the temperature is under the normal for the day.

CLOUDY WEATHER.

Hour.	Spring (21 days).	Summer (27 days).	Autumn (7 days).	Winter (14 days).
1 A.M.	17	8	12	0
2 "	10	15	13	1
3 "	5	17	9	1
4 "	1	15	2	1
5 "	1	13	4	1
6 "	4	10	8	2
7 "	5	9	9	4
8 "	7	9	7	9
9 "	9	10	6	14
10 "	10	10	4	18
11 "	12	8	5	15
Noon	12	5	6	10
1 P.M.	13	0	8	5
2 "	12	2	9	2
3 "	10	6	7	6
4 "	8	8	5	12
5 "	5	12	1	13
6 "	2	15	2	9
7 "	3	17	5	7
8 "	8	17	6	6
9 "	12	16	6	8
10 "	15	15	5	8
11 "	19	11	4	10
Midnight	20	3	9	4
Mean Inches	29.324	29.209	28.869	29.184
Difference from Seasonal Mean.	+0.092	+0.035	-0.344	-0.050

It will be seen that the barometric curve for cloudy days in Spring and Autumn exhibits an evening maximum and a morning minimum, pressure being above the mean from about 7 P.M. to 4 A.M. and below the mean from 5 A.M. to 6 P.M., being essentially the reverse of what obtains in clear weather at these seasons. The Summer and Winter curves, however, differ in a striking degree. In Summer we have the principal minimum at 3 A.M., and a secondary at 9 and 10 A.M., while the primary maximum is at 7 and 8 P.M. In Winter the curve is irregular, the primary maximum being at 10 A.M., after which pressure falls to the minimum for the day at 5 P.M. A slight increase then takes place till 8 P.M., after which pressure falls to a secondary minimum at 11 P.M. The following are the hours of maxima and minima :—

	Maxima.	Minima.
Spring,	+ 0·020 inch at midnight.	- 0·013 inch at 1 P.M.
Summer,	{ - 0·009 „ „ 7 and 8 A.M. + 0·017 „ „ 7 and 8 P.M.	{ - 0·017 „ „ 3 A.M. - 0·010 „ „ 9 and 10 A.M.
Autumn,	{ + 0·013 „ „ 2 A.M. - 0·004 „ „ 10 A.M.	- 0·009 „ „ 7 A.M. and 2 P.M.
Winter,	{ + 0·018 „ „ 10 A.M. - 0·006 „ „ 8 P.M.	{ - 0·013 „ „ 5 P.M. - 0·010 „ „ 11 P.M.

It is evident that in order to explain the characteristic features of the curves of barometric range in clear and cloudy weather, it will be necessary to prepare similar curves of temperature for the selected days, and this we hope to do in a future paper, utilising the data that will be available for the South Orkney station down to the end of the present year (1907). In this way the inter-relations existing between the two elements with possibly that of humidity will be rendered apparent.*

TEMPERATURE.

The thermometers were exposed during the wintering of the "Scotia" in single louvered screens, but at the shore station Stevenson's screens were employed.

The highest temperature recorded during the year ending 31st March 1904 was 47°·5 on 11th February 1904, and the lowest -26°·0 on 19th June 1903, showing a range of 73°·5. The coldest month was June, with a mean temperature of 9°·5, and the warmest, February, with a mean of 32°·6. The mean annual temperature was 23°·4. In the following table will be found the mean monthly temperature for the two years 1903 and 1904, the values for the first three months of 1903 being interpolated by assuming that the temperature of these months, as compared with the corresponding months of 1904, differed to the same extent at the South Orkneys as at the Falklands. Thus at Cape Pembroke, January, February, and March 1903 were colder than the corresponding months of 1904, to the extent of 1°·9, 2°·3, and 2°·2 respectively; and on this assumption the mean temperature of the South Orkneys was as follows, viz., January 30°·4, February 30°·4, and March 30°·2. These values are not likely to differ much from the truth. The "Scotia," for example, in her cruise to the east, from 1st to 14th February 1903, when in a mean latitude of 60° 04' S. long. 37° 43' W., had a mean of 30°·3, the ship's position being thus some 40 miles north of the latitude of the Orkneys. The values after February 1904 have been obtained from the observations taken by the Argentine Expedition to the South Orkneys.†

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1903	(30·4)	(30·4)	(30·2)	20·6	17·1	9·5	16·9	18·8	13·4	27·0	29·3	31·5	22·9
1904	32·3	32·6	32·4	25·1	10·5	16·8	7·0	12·7	20·5	18·4	31·1	28·8	22·4
Mean	31·4	31·5	31·3	22·8	13·8	13·2	12·0	15·8	17·0	22·7	30·2	30·2	22·7

* See note, page 283.

† *Anales de la Oficina Meteorológica Argentina*, by WALTER G. DAVIS, tome xvi., p. 48.

The mean annual temperature from these two years' observations is thus $22^{\circ}\cdot7$, the mean of February, the warmest month, being $31^{\circ}\cdot5$, and of July, the coldest, $12^{\circ}\cdot0$. The seasonal means are Spring $23^{\circ}\cdot3$, Summer $31^{\circ}\cdot0$, Autumn $22^{\circ}\cdot6$, and Winter $13^{\circ}\cdot7$. It will be seen that there are great differences in the means of the same month during the two years, the temperature being controlled by the extent and distribution of the pack-ice round the islands and in the Weddell Sea. Dealing again with the values for the year ending March 1904, it is seen that the mean temperature of the warmest day, 11th February 1904, was $37^{\circ}\cdot4$, and of the coldest, 2nd September, $-21^{\circ}\cdot8$, showing a range of $59^{\circ}\cdot2$ in the mean temperature of the days.

It is interesting to observe the great difference in the mean daily range of temperature in Summer and Winter. Thus in January we have a range of only $3^{\circ}\cdot9$ between the maxima and the minima, while in June the difference is $18^{\circ}\cdot0$. The following table shows the mean variability of temperature for the 21 months ending December 1904, the values being obtained by averaging the differences in the mean temperature of successive days without reference to sign.

Year.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1903	...	...	...	$6^{\circ}\cdot9$	$9^{\circ}\cdot6$	$10^{\circ}\cdot4$	$8^{\circ}\cdot1$	$7^{\circ}\cdot6$	$9^{\circ}\cdot8$	$3^{\circ}\cdot5$	$2^{\circ}\cdot9$	$0^{\circ}\cdot9$	...
1904	$1^{\circ}\cdot5$	$1^{\circ}\cdot4$	$2^{\circ}\cdot5$	$5^{\circ}\cdot4$	$8^{\circ}\cdot4$	$9^{\circ}\cdot9$	$8^{\circ}\cdot5$	$9^{\circ}\cdot0$	$7^{\circ}\cdot3$	$5^{\circ}\cdot8$	$2^{\circ}\cdot1$	$1^{\circ}\cdot2$	$5^{\circ}\cdot1$
Mean	$1^{\circ}\cdot5$	$1^{\circ}\cdot4$	$2^{\circ}\cdot5$	$5^{\circ}\cdot4$	$8^{\circ}\cdot4$	$9^{\circ}\cdot9$	$8^{\circ}\cdot5$	$9^{\circ}\cdot0$	$7^{\circ}\cdot3$	$5^{\circ}\cdot8$	$2^{\circ}\cdot1$	$1^{\circ}\cdot2$	$5^{\circ}\cdot2$

Taking the means by seasons, we have for Spring a value of $5^{\circ}\cdot1$, Summer $1^{\circ}\cdot3$, Autumn $5^{\circ}\cdot4$, and Winter $9^{\circ}\cdot1$, the continental character of the Winter climate of the South Orkneys being clearly reflected in the values of temperature variability, while in Summer the features pertaining to an oceanic climate are equally pronounced.

SUMMARY OF HOURLY TEMPERATURE OBSERVATIONS, MADE AT LAURIE ISLAND, SOUTH ORKNEYS, DURING THE YEAR ENDING 31ST MARCH 1904.

	Mean Temp.	Mean of Highest.	Mean of Lowest.	Mean Daily Range.	Mean Temp. Max. and Min. 2	Max. Temp.	Date.	Min. Temp.	Date.	Monthly Range.	Warmest Day.	Date.	Coldest Day.	Date.	Max. Daily Range.	Date.	Min. Daily Range.	Date.
100																		
April . .	20·6	27·0	14·5	12·5	20·8	36·2	15	- 8·1	29	44·3	32·8	3	- 2·8	29	31·8	24	3·8	(5 and 30)
May . .	17·1	24·7	9·0	15·7	16·8	45·0	31	- 15·7	7	61·7	34·2	31	- 6·4	12	34·5	15	2·1	23
June . .	9·5	18·9	0·9	18·0	9·9	41·5	1	- 26·0	19	67·5	33·3	1	- 19·3	19	39·4	7	2·8	27
July . .	16·9	24·5	8·2	16·3	16·4	34·2	23	- 13·8	5	48·0	32·5	23	- 8·0	5	40·2	3	1·6	19
August .	18·8	23·8	13·0	10·8	18·4	38·0	5 and 6	- 15·4	1	53·4	33·9	5	- 7·4	1	21·8	24	1·1	28
September	13·4	21·1	5·3	15·8	13·2	40·0	11	- 25·8	2	65·8	31·9	11	- 21·8	2	35·2	20	3·9	12
October .	27·0	31·2	22·6	8·6	26·9	42·0	28	- 9·1	3	51·1	35·9	27	10·9	2	33·0	1	2·1	6
November	29·3	32·6	25·7	6·9	29·2	41·4	16	14·9	2	26·5	34·9	16	22·2	2	15·4	1	1·5	30
December	31·5	34·0	29	4·6	31·7	40·5	18	25·4	3	15·4	34·9	17	23·6	1	10·7	17	1·8	(5 and 10)
1904.																		
January .	32·3	34·2	30·3	3·9	32·2	44·4	9	25·4	5	19·0	37·7	9	29·4	4	11·4	9	1·0	14
February .	32·6	35·3	30·3	5·0	32·8	47·9	11	27·0	23 and 24	20·0	37·4	11	28·6	23	12·6	11	1·8	15
March . .	32·4	35·0	29·5	5·5	32·2	39·9	4	20·8	31	19·1	35·9	4	22·7	31	11·2	26	1·8	25
Year . .	23·4	28·5	18·2	10·3	23·4	47·0	11	- 26·0	June 19	73·0	37·7	Jan. 9	- 21·8	Sept. 2	40·2	July 3	1·0	14

Diurnal Range of Temperature.

The following tables show respectively the mean hourly values of temperature for the months and the seasons.

	Spring.	Summer.	Autumn.	Winter.	Year.
1	22°0	31°2	23°4	15°2	22°9
2	21°9	31°5	23°4	15°3	23°0
3	21°8	31°4	23°5	15°8	23°1
4	21°7	31°5	23°7	15°9	23°2
5	21°9	31°6	23°6	15°8	23°2
6	22°2	31°7	23°5	15°8	23°3
7	22°5	31°9	23°5	15°4	23°3
8	23°1	32°2	23°4	15°2	23°5
9	23°6	32°4	23°5	15°0	23°6
10	23°9	32°6	23°5	15°2	23°8
11	24°2	32°9	23°7	15°7	24°1
Noon	24°4	33°1	23°8	15°6	24°2
1	24°8	33°1	23°7	15°6	24°3
2	24°9	33°0	23°6	15°0	24°1
3	24°8	33°0	23°4	14°7	24°0
4	24°5	32°9	23°0	14°3	23°7
5	24°0	32°6	23°1	13°9	23°4
6	23°5	32°3	22°8	14°0	23°2
7	23°3	32°1	22°7	14°2	23°1
8	23°2	32°0	22°7	14°3	23°0
9	23°0	31°9	22°9	14°5	23°1
10	22°8	31°6	23°3	14°2	23°0
11	22°7	31°6	23°1	14°2	22°9
Mdt.	22°7	31°4	23°3	14°5	23°0
Mean	23°2	32°2	23°4	15°0	23°4
Range	3°2	1°9	1°1	1°7	1°4

Hence it will be seen that the diurnal range of temperature is clearly marked in Spring and Summer; but in Autumn and Winter there is a double maximum and minimum, which is doubtless due to the disturbing effect of cyclones, the nights in some months, notably May and July, being warmer than the days, while in August the nocturnal heating is observable in a less degree. (See Plate II.)

Correcting the above values for "midnight differences," we have the following for the hours of maxima and minima:—

	Maxima.	Minima.
Spring	2 P.M.	4 A.M.
Summer	Noon and 1 P.M.	1 A.M.
Autumn	4 A.M. and noon.	8 A.M. and 7 and 8 P.M.
Winter	4 A.M. and 11 A.M.	9 A.M. and 5 P.M.
Year	1 P.M.	1 A.M. and 11 P.M.

In the Autumn and Winter of 1904 the diurnal period is much more clearly defined than in the year under review, but even here there is a well-marked secondary maximum and minimum in the Winter season. Indeed, during the Winter, except on very clear days, the solar effect is very feeble, and great and rapid changes of temperature may take place at any time. This disturbing effect was much more pronounced in 1903 than in 1904, owing to the frequency of rapidly moving V-shaped depressions which caused great temperature variations, as the trough of the disturbance moved over the station. Reference to the notes in the meteorological log will show the frequency with which great changes of temperature occurred without reference to the hour of the day.

MEAN AIR TEMPERATURE.

	Mdt.	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11	Mdt.	Mean.
1903.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
April	20.6	20.7	20.6	20.8	21.0	20.6	20.3	20.5	20.6	20.7	21.1	21.2	21.2	21.2	21.2	21.1	20.6	20.4	19.6	19.6	19.7	20.1	20.4	20.2	20.4	20.6
May	16.0	17.2	17.3	17.5	17.8	17.8	17.9	17.8	17.3	17.4	17.0	17.2	17.3	17.0	16.8	16.1	15.9	16.4	16.5	16.3	16.4	16.8	17.4	17.4	17.6	17.1
June	9.5	10.2	10.0	10.4	10.1	9.8	9.8	9.1	9.2	8.7	8.5	9.3	9.4	9.5	9.1	9.1	9.2	9.0	9.4	9.8	9.9	9.9	9.5	8.9	9.3	9.5
July	16.4	16.3	16.8	17.9	18.3	18.5	18.9	18.9	18.4	18.5	18.9	18.8	18.2	17.9	17.0	16.1	15.2	14.9	15.1	15.3	15.3	15.4	15.1	15.2	15.3	16.9
August	18.9	19.0	19.1	19.1	19.2	19.1	18.6	18.2	18.0	17.9	18.3	18.9	19.1	19.3	19.0	18.9	18.4	17.9	17.6	17.6	17.7	18.1	18.1	18.6	19.0	18.6
September	12.2	11.8	12.2	12.0	11.8	11.6	11.9	12.4	13.2	13.7	13.9	14.2	14.7	15.3	15.6	15.6	15.1	14.4	13.6	13.3	13.2	13.0	12.8	13.1	13.1	13.4
October	26.6	26.0	25.5	25.2	25.2	25.8	25.9	26.2	26.8	27.4	27.8	28.0	28.1	28.3	28.6	28.3	28.1	27.8	27.4	27.2	26.9	26.8	26.6	26.7	26.6	27.0
November	28.5	28.2	28.1	28.1	28.2	28.4	28.7	29.0	29.2	29.6	30.1	30.3	30.5	30.7	30.4	30.5	30.4	29.9	29.6	29.5	29.4	29.3	29.0	28.4	28.3	29.3
December	30.5	30.3	30.4	30.3	30.4	30.6	30.9	31.4	31.7	32.0	32.1	32.4	32.9	32.9	32.8	32.5	32.2	32.1	31.8	31.5	31.4	31.2	30.8	30.9	30.7	31.5
1904.																										
January	31.4	31.4	32.0	32.0	32.1	32.1	32.0	32.1	32.4	32.5	32.8	33.1	33.2	33.2	33.0	33.0	33.1	32.5	32.4	32.2	31.9	31.6	31.4	31.5	31.3	32.3
February	32.1	32.0	32.0	32.0	32.0	32.0	32.1	32.2	32.6	32.7	32.9	33.1	33.1	33.1	33.2	33.5	33.4	33.2	32.8	32.6	32.6	32.8	32.6	32.5	32.3	32.7
March	32.2	32.2	32.2	32.1	32.2	32.5	32.4	32.3	32.5	32.5	32.5	32.7	32.8	32.8	32.9	33.0	32.6	32.6	32.4	32.3	32.1	31.9	32.1	31.8	31.8	32.4
Year	23.0	22.9	23.0	23.1	23.2	23.2	23.3	23.3	23.5	23.6	23.8	24.1	24.2	24.3	24.1	24.0	23.7	23.4	23.2	23.1	23.0	23.1	23.0	22.9	23.0	23.4

WINDS.

The following table shows the number of times the wind blew from the eight principal directions along with calms and variables. During the time that the "Scotia" was in winter quarters, from April to October 1903, the exposure for most winds was good, but from 1st November, when the observations were transferred to Omond House, high ground immediately to the west deflected winds from that quarter into south-east. The values given from November 1903 to March 1904 have accordingly been corrected by taking the direction from which the lower clouds were moving when these could be observed. North-west winds, owing to both stations being very open to this direction, are probably somewhat in excess of the true amount, while those from west and south-west are below what would have been recorded had the exposure been unexceptional. While weight must be given to these matters, the main facts are clearly emphasised, viz., that at no season do the South Orkneys come within the influence of the east wind system which is so conspicuous a feature of the atmospheric circulation at Snow Hill (lat. 64° 22' S. long. 57° 00' W.), Wandel Island (lat. 65° 03' S. long. 63° 26' W.), and at the winter quarters of the "Gauss" (lat. 66° 02' S. long. 89° 38' E.).

NUMBER OF HOURS THE WIND BLEW FROM THE EIGHT PRINCIPAL DIRECTIONS,
APRIL 1903 TO MARCH 1904.

Year.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Var.
1903.										
April	117	197	53	153	104	27	6	10	43	10
May	153	195	39	77	122	80	5	22	44	7
June	94	176	66	116	102	76	18	16	53	3
July	50	288	122	88	100	45	11	3	28	9
August	137	210	74	87	63	67	14	40	48	4
September	68	141	53	131	130	106	14	28	44	5
October	86	346	92	73	26	41	6	24	43	7
November	59	385	124	66	9	40	9	11	14	3
December	32	357	68	15	49	101	29	36	54	3
1904.										
January	40	267	97	109	18	112	35	16	43	7
February	48	290	68	129	59	47	13	15	23	5
March	70	321	120	55	16	95	27	16	24	0
Total	954	3173	976	1099	798	837	187	237	461	63
SEASONAL AND ANNUAL PERCENTAGE FREQUENCY.										
	%	%	%	%	%	%	%	%	%	%
Spring	10	40	12	12	8	8	1	3	5	1
Summer	6	42	10	11	6	12	4	3	5	1
Autumn	15	32	10	13	11	9	2	2	5	1
Winter	13	30	12	13	12	8	2	3	6	1
Year	10·9	36·1	11·1	12·5	9·1	9·5	2·1	2·7	5·3	0·7

It will be observed that the percentage wind frequency from the various directions for the seasons does not at any time differ materially from the mean of the year, winds from north and north-west accounting for nearly half of the whole number, while the minimum is recorded with winds from the east, which form only two per cent. of the total.

Velocity of the Wind.

The strength of the wind was estimated on a scale of 0–12, which differed somewhat from that in general use, being that employed at the Ben Nevis Observatory. The velocity of the wind was recorded by an anemometer of the usual Robinson pattern, which was placed, in winter, about five feet above the level of the poop. After 1st November the instrument was transferred from the ship to the shore, where it occupied

a good position near the magnetic hut. The following table gives particulars for the period covered by the observations :—

	Mean Force 0-12.			Anemometer.—Miles per Hour.			
	Mean.	Highest Daily Mean.	Lowest Daily Mean.	Mean.	Highest Daily Mean.	Lowest Daily Mean.	Maximum Hourly Movement.
1903.							
April	1·7	2·9 3rd	0·6 14th	...	...	...	...
May	2·2	4·4 9th	0·6 7th and 16th	...	...	...	...
June	1·7	3·3 30th	0·2 28th	13·4	30·6 30th	1·7 28th	51·9 12th
July	2·4	4·0 20th	0·2 28th	15·9	30·5 23rd	0·8 28th	62·3 3rd
August	2·0	5·6 15th	0·5 27th	15·5	43·6 15th	1·7 26th	66·5 15th
September	1·7	4·0 23rd	0·2 21st	11·6	31·7 23rd	0·5 21st	50·4 9th
October	2·0	3·6 5th	0·2 16th	14·6	27·4 23rd	0·9 16th	69·8 23rd
November	1·7	3·4 1st	0·4 8th	11·7	26·6 1st	1·5 8th	53·7 1st
December	1·3	3·7 22nd	0·0 6th	9·0	27·4 22nd	0·1 6th	38·5 23rd
1904.							
January	1·1	3·4 3rd	0·2 15th and 16th	8·8	28·2 3rd	0·8 16th	43·5 3rd
February	1·8	3·0 26th	0·5 2nd	15·1	27·2 3rd	4·0 7th	50·2 26th
March	2·3	4·9 28th	0·7 20th	19·2	37·4 28th	7·0 26th	60·5 3rd
Means and Extremes .	1·8	5·6 15th	0·0 6th	13·5	43·6 15th	0·1 6th	69·8 23rd

The mean hourly velocity of the wind, using the anemometer for the ten months June 1903 to March 1904, and converting the estimated force for April and May 1903 into the equivalent in miles per hour, is Spring 13·9 miles, Summer 9·8, Autumn 15·4, Winter 14·9 miles.

Diurnal Variation in the Velocity of the Wind.

Taking the values derived from the anemometer, we obtain the following means for the hourly air movement at the different hours of the day (see Plate II.) :—

MEAN AIR MOVEMENT.—Miles per Hour.

	Spring.	Summer.	Winter.	Means. June 1903– February 1904.
Midnight	12·2	11·3	15·7	12·7
1 A.M.	12·7	10·7	16·4	13·8
2 "	12·0	10·8	16·2	13·0
3 "	12·0	11·2	16·1	13·2
4 "	11·4	10·5	18·3	13·4

MEAN AIR MOVEMENT—continued.

	Spring.	Summer.	Winter.	Means. June 1903– February 1904.
5 A.M.	11.0	10.4	15.3	12.2
6 "	11.3	10.8	14.6	12.2
7 "	11.7	10.8	15.6	12.7
8 "	12.3	10.8	15.0	12.7
9 "	13.0	11.4	14.9	13.1
10 "	13.3	10.7	15.0	13.0
11 "	13.0	10.8	14.8	12.9
Noon	13.1	11.1	15.1	13.1
1 P.M.	13.8	12.0	14.8	13.5
2 "	14.0	12.0	14.5	13.5
3 "	13.4	11.6	13.3	12.8
4 "	13.3	11.1	14.0	12.8
5 "	14.2	11.0	13.2	12.8
6 "	13.3	10.4	12.9	12.2
7 "	12.9	11.1	13.9	12.6
8 "	12.6	10.5	14.2	12.5
9 "	12.1	11.5	14.8	12.8
10 "	12.2	10.8	15.7	12.9
11 "	12.2	10.8	14.9	12.6
Midnight	12.4	10.3	15.2	12.6
Mean	12.6	11.0	14.9	12.8

Applying the corrections for midnight differences and smoothing the results by continuous three-hour groups, we obtain the values shown in the plate, from which it will be observed that in Spring and Summer the minimum wind velocity is recorded at 5 A.M. and the maximum at 2 P.M., while in Winter the curve is reversed, the wind being strongest at 3 A.M. and at a minimum at 5 and 6 P.M. On the mean of the ten months there is a double period, with maxima at 2 A.M. and 1 P.M. and minima at 6 A.M. and 7 P.M. The anemometer values for the Autumn season are not yet available, but, taking the estimated wind force, it is evident that the curve approximates closely to that of the Winter, with maxima about 6 A.M. and minima about 4 P.M.

SHOWING THE MEAN HOURLY VELOCITY OF THE WIND AT SCOTIA BAY.

Note.—The means for June are deduced from 28 days' observations, July from 22 days, August from 30 days, and February 1904 from 20 days.

	Mdt.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean.
June	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.
July	13.3	12.1	13.6	13.7	16.1	13.3	13.2	14.2	13.8	13.1	13.9	13.4	14.5	14.5	14.3	14.0	15.2	12.8	11.6	12.3	12.9	13.1	13.1	10.8	11.1	13.4
August	18.1	20.0	17.7	18.7	19.3	15.2	13.0	15.9	15.1	15.0	14.6	16.0	14.6	15.6	15.7	13.0	13.9	11.7	12.7	14.4	15.5	17.2	19.6	18.3	17.5	15.9
September	15.8	17.1	17.3	15.8	18.9	17.3	17.5	16.8	16.0	16.5	16.5	15.1	16.3	14.2	13.4	13.0	13.0	15.1	14.5	14.9	14.3	14.0	14.3	15.5	15.1	15.5
October	11.9	12.0	11.8	10.7	10.3	9.3	8.6	8.6	9.9	10.2	11.9	12.2	12.5	14.3	12.7	12.7	13.4	14.3	13.4	12.8	12.0	11.1	11.9	12.1	12.1	11.6
November	12.6	12.6	11.9	12.7	12.2	12.3	13.4	13.6	13.9	17.5	15.9	14.6	15.9	15.3	17.2	16.5	15.6	17.4	15.7	15.6	15.1	14.0	13.4	13.6	13.3	14.6
December	12.2	13.6	12.4	13.7	11.7	11.3	12.0	13.0	13.0	11.3	12.1	12.3	10.9	11.7	12.1	11.1	10.9	10.8	10.9	10.4	10.8	11.1	11.2	10.9	11.2	11.7
January	9.1	9.7	9.9	9.1	8.1	8.0	8.7	8.2	9.1	9.3	9.1	9.3	9.9	10.1	9.8	8.7	8.4	7.9	7.6	9.6	9.0	10.0	8.8	8.5	9.4	9.0
February	9.0	9.0	8.2	8.6	9.1	8.2	8.5	8.6	8.4	9.1	8.1	8.1	8.5	10.0	10.5	10.0	8.6	9.2	8.8	8.2	8.1	9.0	8.1	9.0	8.7	8.8
Mean	12.7	13.8	13.0	13.2	13.4	12.2	12.2	12.7	12.7	13.1	13.0	12.9	13.1	13.5	13.5	12.8	12.8	12.8	12.2	12.6	12.5	12.5	12.9	12.6	12.6	12.8

270 RESULTS OF THE METEOROLOGICAL OBSERVATIONS TAKEN DURING

MEAN WIND FORCE.—Scale 0-12.

	Mdt.	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11	Mdt.	Mean.
1903.																										
April	1.57	1.67	1.82	1.73	2.03	1.90	2.08	2.12	1.80	1.72	1.63	1.65	1.78	1.57	1.77	1.47	1.42	1.52	1.27	1.35	1.58	1.48	1.30	1.43	1.57	1.65
May	2.23	2.37	2.22	2.21	2.29	2.66	2.65	2.55	2.13	2.00	2.15	1.77	1.85	2.18	2.15	1.92	2.03	2.05	2.27	2.32	2.61	2.13	2.16	2.07	2.31	2.21
June	1.57	1.63	1.68	1.72	2.40	1.98	2.12	2.37	1.90	1.78	1.57	1.82	2.00	1.65	1.83	1.67	1.45	1.58	1.43	1.40	1.30	1.30	1.35	1.45	1.48	1.70
July	2.48	2.56	2.76	2.66	3.05	2.73	2.65	2.90	2.16	2.19	2.27	2.32	2.07	2.13	2.02	1.97	1.87	1.87	2.13	2.24	2.32	2.32	2.37	2.34	2.50	2.35
August	2.05	2.05	2.05	1.95	2.65	2.65	2.63	2.44	2.26	1.95	1.92	2.15	2.13	1.79	1.86	1.94	1.98	1.89	1.82	1.76	1.88	1.78	1.71	1.82	2.02	2.05
September	1.82	1.53	1.80	1.27	1.58	1.62	1.33	1.63	1.47	1.48	1.52	1.67	1.93	1.75	1.70	1.80	1.82	1.63	1.72	1.78	1.77	1.78	1.67	1.73	1.85	1.68
October	1.50	1.73	1.73	1.65	1.65	2.15	2.10	2.10	2.18	2.21	2.15	2.10	2.00	2.27	2.03	2.11	2.24	2.32	2.36	1.94	1.98	1.73	1.73	1.85	1.66	2.00
November	1.90	1.87	1.93	1.88	1.68	1.63	1.62	1.78	1.65	1.67	1.57	1.63	1.58	1.75	1.62	1.63	1.62	1.53	1.57	1.53	1.52	1.60	1.67	1.63	1.82	1.66
December	1.35	1.42	1.35	1.16	1.08	1.23	1.23	1.26	1.44	1.32	1.27	1.24	1.32	1.26	1.23	1.22	1.15	1.24	1.31	1.24	1.40	1.35	1.27	1.27	1.35	1.27
1904.																										
January	1.23	0.77	1.16	1.07	1.02	0.98	1.08	1.05	1.10	1.13	1.03	0.79	1.18	1.23	1.40	1.29	1.20	1.13	0.92	0.84	0.97	1.11	0.98	1.13	1.16	1.08
February	1.36	1.43	1.83	1.74	1.76	1.38	1.57	1.67	1.93	1.79	1.67	1.90	1.83	1.74	2.17	2.12	1.71	1.81	1.90	1.57	1.52	1.81	1.76	1.67	1.34	1.74
Mean	1.73	1.73	1.85	1.73	1.92	1.90	1.92	1.99	1.82	1.74	1.71	1.73	1.78	1.76	1.80	1.74	1.68	1.69	1.69	1.63	1.71	1.67	1.63	1.67	1.73	1.76

* Mean of 21 days.

SUNSHINE.

For the registration of bright sunshine, a Campbell-Stokes recorder was employed. This was placed on a cairn close to the magnetic hut. Unfortunately it was impossible to obtain a situation with a good exposure. In summer the sun did not shine on the instrument after 7 P.M., owing to hills to the west and south-west, but from the beginning of November to the middle of February there was a clear horizon from the time of sunrise. At the equinoxes the total possible was ten hours, while at the winter solstice the maximum that could be recorded was only two and a half hours. At this season, however, the actual amount registered even on cloudless days was about an hour less, owing to the feeble strength of the sun's rays. Indeed, on some days that were practically cloudless the instrument failed to record owing to the low altitude of the sun and the number of ice crystals in the lower air. I have endeavoured to compute the total possible sunshine for the different months by taking the values recorded on days in 1903 and 1904 that were either cloudless or which had a very small amount of cloud. The information given under this heading in the following table must, however, be looked on as a tolerable approximation.

	Total hours recorded.	Per cent. of possible.	Days with none.
1903.			
May	26.7	17	19
June	3.7	4	22
July	12.8	8	22
August	35.7	14	21
September	75.5	25	13
October	58.5	16	8
November	89.4	21	7
December	73.3	15	5
1904.			
January	49.0	10	14
February	45.7	13	11
March	20.4	7	14
April	25.8	11	15
Year	516.5	14	171

Grouping the results by seasons, the percentage of possible sunshine is 20 in Spring, 13 in Summer, 10 in Autumn, and 11 in Winter.

The diurnal variation of bright sunshine is shown in the following table:—

BRIGHT SUNSHINE FOR HOUR ENDING

	5 A.M.	6	7	8	9	10	11	Noon.	1 P.M.	2	3	4	5	6	7	Total.
	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.
1903.																
May . . .	...	...	...	...	...	...	1.10	4.15	7.32	9.15	4.10	0.90	...	...	...	26.72
June . . .	...	...	...	...	...	...	...	0.10	0.93	2.10	0.60	...	...	...	...	3.73
July . . .	...	...	...	...	...	...	...	1.70	2.60	6.40	1.63	0.45	...	...	...	12.78
August . . .	...	...	...	...	0.23	1.63	3.77	7.00	7.30	6.80	4.92	3.15	0.90	...	...	35.70
September . . .	...	...	1.98	5.43	7.13	8.57	9.33	7.80	8.28	8.25	8.29	8.12	2.30	...	...	75.48
October . . .	0.15	3.17	5.13	5.72	7.28	5.68	5.92	7.63	4.50	4.00	3.65	4.15	1.37	0.15	...	58.50
November . . .	0.17	1.17	2.58	4.58	6.98	7.85	6.78	9.05	9.02	8.89	9.07	8.73	7.58	6.10	0.97	89.52
December . . .	1.47	3.28	6.08	5.53	5.18	4.82	5.08	6.50	7.77	7.45	5.02	4.92	4.72	2.97	2.50	73.29
1904.																
January . . .	1.47	0.77	2.60	2.72	3.55	5.73	3.58	3.72	5.35	4.97	4.55	4.58	2.58	1.55	1.27	48.99
February* . . .	0.15	2.44	2.86	2.70	1.56	1.86	2.61	1.55	2.45	2.45	3.52	3.52	1.90	1.42	0.47	31.46
Total . . .	3.41	10.83	21.23	26.68	31.91	36.14	38.17	49.20	55.52	60.46	45.35	38.52	21.35	12.19	5.21	456.17
Spring . . .	0.32	4.34	9.69	15.73	21.39	22.10	22.03	24.48	21.80	21.14	21.01	21.00	11.25	6.25	0.97	223.50
Summer . . .	3.09	6.49	11.54	10.95	10.29	12.41	11.27	11.77	15.57	14.87	13.09	13.02	9.20	5.94	4.24	153.74
Winter . . .	...	...	...	...	0.23	1.63	3.77	8.80	10.83	15.30	7.15	3.60	0.90	...	...	52.21

* For period February 1st to 21st.

Hence in Spring the sunniest hour is that ending with noon, and the sunniest period the three hours ending with noon. In Summer the sunniest hour is that ending with 1 P.M., and the afternoons have much more sunshine than the forenoons, doubtless due to the prevalence of fog and mist in the early part of the day which disappears as the temperature rises.

Maximum in Sun.

A solar maximum registering thermometer (black bulb *in vacuo*) was exposed after 12th May 1903 at the Omond House station, but was not read regularly until the beginning of September. The values given in the following table are accordingly for the year ending August 1904. I am indebted to Mr W. G. DAVIS, Director of the Argentine Meteorological Office, for permission to utilise the data for the six months, March to August 1904. The instrument on several days could not be read owing to the values falling below the scale, so that in computing the excess over the shade temperature only those days have been taken on which the solar maximum was recorded.

MAXIMUM READINGS IN SUN.

	Mean Solar Maximum.	Excess over Shade Maximum.	Days' Observations.	Absolute Maximum.	Date.
1903.					
September . . .	84.4	64.4	22	110.0	5
October . . .	108.2	86.0	24	139.0	29
November . . .	126.6	94.2	29	158.9	11
December . . .	124.6	90.6	31	159.5	23

MAXIMUM READINGS IN SUN—*continued.*

	Mean Solar Maximum.	Excess over Shade Maximum.	Days' Observations.	Absolute Maximum.	Date.
1904.					
January	100·8	66·7	28	141·6	4
February	103·4	67·1	21	135·2	5
March	79·1	43·8	27	128·5	10
April	59·8	29·9	28	112·5	2
May	42·1	23·6	28	81·9	2
June	33·3	7·6	26	52·0	15
July	32·7	15·6	26	59·2	16
August	59·0	37·9	31	113·2	17
Means and Extremes .	80·3	52·3	321	159·5	Dec. 23

The excess over the shade maxima was $81^{\circ}\cdot 5$ in Spring, $74^{\circ}\cdot 8$ in Summer, $32^{\circ}\cdot 4$ in Autumn, and $20^{\circ}\cdot 4$ in Winter. The intensity of solar radiation is thus at a maximum in Spring and at a minimum in Winter. It was frequently noticed that on days characterised by high solar temperatures in Spring and Summer the maximum was recorded *before noon*, while in most cases the shade maxima were recorded *after noon*. The greatest excess was $94^{\circ}\cdot 2$ in November and the least $7^{\circ}\cdot 6$ in June, but in the Winter season the total sunshine is much reduced owing to hills to the north, so that had there been a clear horizon the values for this season would have been considerably increased.

CLOUD.

The mean amount of cloud was estimated at each hour on the usual scale of 0–10. The following are the monthly means along with the number of hours the sky was overcast and cloudless:—

	Mean.	Hours Overcast.	Per cent.	Hours Cloudless.	Per cent.	Days with Mean Cloud.	
						Greater than 8.	Less than 2.
1903.							
April	8·1	454	63	52	7	18	0
May	7·5	459	62	98	13	19	4
June	6·7	391	54	157	22	14	3
July	7·5	446	60	84	11	12	0
August	8·1	527	71	55	7	21	1
September	7·0	412	57	115	16	13	2
October	8·4	501	67	47	6	23	0
November	8·4	485	67	30	4	19	0
December	9·3	591	79	2	0	28	0
1904.							
January	9·6	652	88	1	0	29	0
February	8·8	524	75	7	1	23	0
March	9·2	576	77	6	1	28	0
Means and Totals	8·2	502	69	54	7	247	10

Taking seasonal values, the mean amount of cloud is 7·9 in Spring, 9·2 in Summer, 8·3 in Autumn, and 7·4 in Winter. It will be seen that in no month did the percentage of hours with a completely overcast sky fall below 54, while in January 88 per cent. of the observations showed a sky entirely overcast. Cloudless hours are at a maximum in June, with 157 cases forming 22 per cent. of the whole; but in December the sky was cloudless on only two hours and in January on one hour. For the period April to December 1904, the mean amount of cloud is as follows:—

April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
8·3	6·9	7·6	6·9	6·6	7·2	8·8	9·1	9·5

The diurnal period in the amount of cloud is shown in the following table:—

MEAN AMOUNT OF CLOUD.

	Spring.	Summer.	Winter.	April to February— 11 Months.
1 A.M.	7·4	9·6	7·3	8·0
2 "	7·3	9·4	7·4	7·9
3 "	7·3	9·4	7·3	7·8
4 "	7·9	9·1	7·5	8·1
5 "	8·2	9·2	7·4	8·1
6 "	8·3	9·3	7·3	8·2
7 "	8·1	9·1	7·6	8·3
8 "	8·1	9·5	7·6	8·4
9 "	8·1	9·5	7·7	8·4
10 "	8·0	9·4	7·7	8·3
11 "	8·1	9·1	7·6	8·2
Noon	8·3	9·3	7·4	8·2
1 P.M.	8·6	9·3	7·5	8·4
2 "	8·4	9·3	7·3	8·3
3 "	8·2	9·5	7·4	8·4
4 "	8·0	9·4	7·6	8·3
5 "	8·2	9·4	7·6	8·4
6 "	8·1	9·4	7·3	8·2
7 "	8·1	9·5	7·5	8·2
8 "	7·7	9·5	7·5	8·1
9 "	7·5	9·4	7·3	7·9
10 "	7·7	9·6	7·3	8·1
11 "	7·7	9·4	7·7	8·1
Midnight	7·3	9·4	7·4	8·0
Mean	7·8	9·4	7·4	8·2

Thus, on the mean of eleven months cloud is above the average from 7 A.M. to 5 P.M. and below the average from 8 P.M. to 5 A.M. There is a double period, there being maxima at about 9 A.M. and 3 P.M. and minima at 3 A.M. and 9 P.M. The most marked diurnal range occurs in Spring, when the increase of cloud as the temperature rises results in a decided maximum from noon to 2 P.M., while the clearing of the sky at night is shown by a minimum from midnight to 3 A.M. In Summer and Winter the diurnal range is not well marked. (See Plate III.)

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MEAN AMOUNT OF CLOUD—SCALE 0-10.

	Mdt.	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11	Mdt.	Mean.
1903.																										
April	8.4	7.7	6.6	6.4	7.4	7.9	8.0	7.9	8.4	8.5	8.2	8.1	8.3	8.6	8.9	9.5	9.2	9.4	8.3	8.1	8.4	7.7	7.8	7.6	8.4	8.1
May	7.8	7.4	7.8	7.1	7.6	7.5	7.3	8.1	8.4	8.6	8.3	7.3	7.4	7.5	7.3	7.5	7.4	7.4	7.1	6.7	6.9	6.7	7.3	7.6	7.8	7.5
June	7.1	5.8	5.8	5.8	6.5	6.7	6.2	5.9	6.9	7.2	7.0	6.9	6.1	6.5	6.7	7.0	6.9	7.0	7.4	7.6	7.2	6.8	6.9	7.6	7.0	6.7
July	7.3	7.6	7.6	7.1	7.6	7.0	7.6	8.4	7.8	7.9	8.4	8.3	8.3	8.2	7.4	7.1	7.8	7.2	6.4	6.9	7.4	7.0	7.2	7.5	7.5	7.5
August	7.6	8.4	8.7	8.9	8.4	8.4	8.1	8.5	8.2	7.9	7.8	7.7	7.8	7.9	7.8	8.0	8.2	8.5	8.0	7.9	8.0	8.1	7.9	8.0	7.7	8.1
September	6.1	6.4	6.2	6.5	6.6	6.7	6.7	6.8	7.4	7.3	7.2	7.5	7.8	7.8	7.6	7.3	7.2	7.5	7.3	7.1	6.8	6.5	7.1	6.5	6.1	7.0
October	7.6	7.4	7.3	7.5	8.3	8.3	8.6	8.4	7.9	8.4	8.2	8.6	8.6	9.1	9.0	9.1	9.1	9.5	9.3	8.8	8.5	7.6	7.9	7.6	8.4	8.4
November	8.3	8.4	8.4	8.0	8.8	9.5	9.6	9.1	9.1	8.5	8.7	8.3	8.5	8.9	8.6	8.3	7.7	7.9	7.6	7.8	7.6	7.5	8.5	8.8	8.4	8.4
December	9.5	9.7	9.9	9.7	9.3	9.1	9.0	8.9	9.6	9.2	9.2	8.7	8.6	8.7	8.9	9.1	9.4	9.3	9.6	9.5	9.6	9.6	9.8	9.4	9.5	9.3
1904.																										
January	9.6	9.5	9.7	9.6	9.4	9.4	9.6	9.5	9.3	9.4	9.3	9.5	9.7	9.7	9.5	9.8	9.6	9.7	9.8	9.5	9.4	9.5	9.8	9.7	9.6	9.6
February	9.0	9.5	8.6	8.8	8.7	9.0	9.2	9.0	9.7	9.8	9.8	9.2	9.5	9.6	9.5	9.6	9.2	9.3	8.7	9.4	9.5	9.0	9.3	9.1	9.0	9.3
Mean	8.0	8.0	7.9	7.8	8.1	8.1	8.2	8.3	8.4	8.4	8.3	8.2	8.2	8.4	8.3	8.4	8.3	8.4	8.2	8.2	8.1	7.9	8.1	8.0	8.0	8.2

* Mean of 21 days.

PRECIPITATION.

The measurement of the precipitation proved to be impossible owing to the frequency of drift which prevailed throughout the greater part of the year. Except in Summer, when the downfall was in the form of rain, the gaugings are unsatisfactory. Nevertheless one is able to say that in spite of the general humidity of the atmosphere and the frequency of snow, the precipitation is small. The actual results for the eighteen months ending with December 1904 show a downfall equivalent to 10.50 inches of rain per annum, but I incline to the belief that from 15 to 17 inches would more nearly represent the actual amount, as much is lost when the snow is drifting. The greatest quantity falls in Summer, and is equivalent to nearly 40 per cent. of the annual quantity. Daily falls exceeding half an inch are very rare, there being only two such during the period under review.

The following table shows the number of hours of precipitation in each month; the last column gives the number of days on which snow, sleet, hail, or rain fell, and the number of times the snow was drifting is added for comparison.

HOURS OF OCCURRENCE.

	Snow.	Hail.	Sleet.	Rain.	Total.	Snow Drifting.	Days with Precipitation.
1903.							
April	119	2	32	48	201	51	25
May	175	6	8	53	242	129	25
June	205	7	6	24	242	118	26
July	167	5	7	26	205	166	30
August	218	3	8	49	278	132	27
September	166	3	10	15	194	113	22
October	168	1	21	10	200	65	26
November	124	5	13	37	179	60	26
December	212	3	6	28	249	109	29
1904.							
January	133	3	17	87	240	28	29
February	103	5	14	89	211	15	26
March	104	4	31	53	192	26	29
Total	1894	47	173	519	2633	1012	320

PHENOMENA.

The following table shows the number of times certain phenomena were recorded. Cases of some of the more unusual phenomena are referred to in the meteorological log.

HOURS OF OCCURRENCE.

	Mist or Fog.	Silver Thaw.	Haze.	Hoar Frost.	Rain- bows.	Lightning without Thunder.	Halos or Coronæ.	
							Solar.	Lunar.
1903.								
April . .	51	6	2	3	0	0	6	9
May . .	64	27	0	0	0	0	0	17
June . .	21	30	5	1	0	0	1	18
July . .	25	40	5	0	0	0	0	9
August . .	34	77	11	3	1	0	0	12
September .	24	31	13	3	0	2	4	9
October . .	7	41	22	1	0	0	1	4
November .	23	22	16	3	0	0	0	0
December .	50	2	26	0	0	0	1	0
1904.								
January . .	33	11	24	1	1	0	0	0
February . .	9	6	25	0	1	0	4	1
March . .	35	4	32	0	0	0	1	2
Total . .	376	297	181	15	3	2	18	81

With regard to mist or fog, only those cases were recorded in which the observer was actually enveloped in it. It is of interest to note that no appearance of the aurora, and no case of lightning accompanied with thunder, was recorded.

"FÖHN" WINDS.

"Föhn" winds take place with winds from WNW., in which direction there is a considerable area of high land over which the air has to pass before reaching Scotia Bay. The descending current warmed dynamically by compression may produce as high a temperature in midwinter as in midsummer. Thus on 31st May 1903 the shade thermometer at 1.15 P.M. rose to $46^{\circ}8$, while, as already stated, the absolute maximum was $47^{\circ}5$ on 11th February 1904. On this day the "Scotia" at noon was in lat. $55^{\circ}35'$ S. long. $54^{\circ}5'$ W., being then over five degrees of latitude to the north of the Orkneys, but while the "Föhn" was blowing, lower temperatures were recorded on the ship than at the Island. The following are the readings of pressure, temperature, and wind at 3, 4 and 5 P.M. on the day referred to:—

SOUTH ORKNEYS.				"SCOTIA."		
Hour.	Pressure Inches.	Temp.	Wind.	Pressure Inches.	Temp.	Wind.
3 P.M.	29·187	45·9	NW.	29·529	42·9	WNW.
4 P.M.	·201	46·5	NW.	·509	41·3	WNW.
5 P.M.	·206	47·0	WNW.	·482	42·0	WNW.

The barometric readings are reduced to 32° and sea-level, and the wind direction is true. The observations are not quite synchronous at the two positions, which differ nearly 10° of longitude, but the purely local effect of the "Föhn" is well marked. That the phenomenon is quite local and not associated in any way with the temperature of surrounding areas, is shown by the circumstance that as soon as the wind changed to NW. by N. the temperature invariably fell. A few notes made on the day above mentioned indicate the restricted area over which the "Föhn" effect prevailed. At 5 P.M. Cape Bennett, twelve miles west of the station, and the horizon beyond, were quite clear, but in the direction of Saddle Island, some seven miles due north, the view was restricted to above five miles, there being much stratus fog and haze. This shows the extent to which the dry "Föhn" wind extended in a north-west direction. At this time the upper sky was three-fourths covered with beautiful cirrus and cirro-cumulus clouds travelling very quickly from the north-west.

An increase of temperature with height was not uncommon under anti-cyclonic conditions. Thus on 19th August 1904 the temperature at 11 A.M., at a height of 896 feet, was 20°·9, while at sea-level at the same time it was 10°·4. Many such inversions of the normal conditions were observed, and it is very probable that during anti-cyclones the large inversions of temperature observed in Europe would manifest themselves. Unfortunately the kite experiments were not a success, and the ascent of lofty peaks was out of the question owing to crevasses and hanging glaciers, so no data were obtained from heights exceeding 1400 feet.

THERMAL AND OTHER WINDROSES.

In the calculation of the thermal and other windroses, the whole series of hourly observations made during the wintering of the "Scotia" in Scotia Bay has been utilised. It was not considered expedient to make use of the observations taken from 1st November 1903 at Omond House, as the wind circulation there, under the conditions already referred to, differs considerably from the general mean for the locality. In dealing with the observations, the values were tabulated to sixteen directions, N., NNW., NW., and so on; another column being added for calms. The values given in the tables

have been resolved to eight points by halving the intermediate points between the octants. The more correct method would have been to have divided the intermediate observations with reference to the relative frequency of the adjacent octants, but this, while adding considerably to the labour, would not have materially modified the results.

The number of observations employed in obtaining the means of the climatic elements with the different winds, will be found in the table of wind frequency already given, the variable winds which form but a very small percentage of the whole being excluded.

It may be remarked that in the last line, giving means for the period under review, the values are not the mean of the seven monthly values, each of which is dependent on a different number of observations, but are derived by taking the gross totals and dividing by the whole number of observations.

In connection with the thermal and other windroses for the South Orkneys, it is of interest to note that in 1906 an electrical recording anemograph was established on a prominent position on Mossman Peninsula, whereby the true wind direction has been continuously recorded.

MEAN TEMPERATURE OF THE DIFFERENT WINDS.

	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Mean.
1903.										
April . . .	28·7	29·0	21·6	11·6	11·3	12·7	25·2	24·0	15·7	20·6
May . . .	26·1	27·4	21·7	5·5	6·3	4·0	19·7	21·4	4·9	17·1
June . . .	20·5	19·8	18·0	-4·2	-2·8	3·7	5·0	21·5	4·7	9·5
July . . .	25·6	26·6	22·9	3·8	-3·9	12·1	3·2	26·4	6·2	16·9
August . . .	23·4	26·8	25·8	9·3	8·6	4·9	1·7	22·3	7·7	18·6
September . . .	20·6	25·4	25·0	8·1	6·1	3·4	0·7	18·2	10·0	13·4
October . . .	26·6	29·9	29·6	19·9	15·5	18·8	7·2	27·6	24·9	27·0
Means . . .	24·8	26·9	23·9	7·4	5·2	5·6	8·1	22·4	11·0	17·6

Hence the warmest winds are NW. and N., and the coldest S. and SE., there being a difference of $21^{\circ}7$ between the warmest and coldest directions. It is of interest to note the great difference between the temperature of west and south-west winds. On the mean of the seven months the south-west is $16^{\circ}5$ colder than the west, while in June the difference was as much as $22^{\circ}2$. From these observations it appears probable that there is a mass of land the northern extremity of which is in lat. 65° S. long. 44° W., both MORRELL and ROSS having referred to an "appearance of land" in this region. The circumstance that "Föhn" winds blow from the west doubtless partly accounts for their relatively high temperature; but there are other reasons, notably the comparatively high barometric pressure experienced with south-

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west winds, which indicate a local anti-cyclone in winter such as would form over a land surface.

MEAN BAROMETRIC PRESSURE OF THE DIFFERENT WINDS AT 32° AND SEA LEVEL.

	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Mean.
1903.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
April .	29·224	29·189	29·145	29·261	29·117	29·080	29·322	29·200	29·334	29·209
May .	29·330	29·310	29·335	29·542	29·263	29·293	29·137	29·055	29·439	29·329
June .	29·308	29·265	29·112	29·328	29·277	29·093	29·216	29·220	29·287	29·256
July .	29·301	29·265	29·141	29·064	29·023	28·988	29·151	28·651	29·128	29·160
August .	29·316	29·349	28·905	29·056	29·329	29·381	29·269	29·261	29·478	29·286
September .	29·210	29·221	29·297	29·332	29·043	29·171	29·224	29·210	29·283	29·239
October .	29·495	29·326	29·372	29·401	29·465	29·261	29·101	29·098	29·375	29·340
Means .	29·313	29·282	29·177	29·280	29·177	29·196	29·212	29·170	29·348	29·259

Hence the highest barometric pressure occurs with north winds, calms, and north-west winds, and the lowest with north-east winds, west and south winds being also characterised by low pressures. In cold months, such as May, June, and September, the highest pressure is recorded with south-west winds, which seems to point to the presence of land surfaces in that direction. The difference between north-east and north winds is well marked, pressure being usually much lower with a north-east than with a north wind.

MEAN AMOUNT OF CLOUD FOR THE DIFFERENT WINDS. SCALE 0-10.

	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Mean.
1903.										
April .	9·5	8·5	8·2	7·6	7·6	6·2	8·0	9·7	6·7	8·1
May .	9·0	8·3	7·0	5·3	7·4	6·3	6·8	9·3	3·9	7·5
June .	8·8	8·2	6·9	4·2	4·7	6·9	7·4	9·7	5·5	6·7
July .	9·5	8·7	5·5	6·6	6·5	8·7	7·0	10·0	7·3	7·5
August .	9·0	8·4	7·4	7·7	7·3	9·3	5·6	9·4	5·1	8·1
September .	8·8	9·2	8·2	5·4	5·6	6·1	5·2	9·4	5·4	7·0
October .	9·4	8·9	7·7	7·5	8·3	7·6	7·1	9·7	6·8	8·4
Means .	9·1	8·6	7·0	6·3	6·5	7·2	6·6	9·5	5·7	7·6

It will be seen that the greatest amount of cloud is recorded with ocean winds from the north-east and north, while the clearest skies occur with austral winds blowing over extensive surfaces of ice. The actual lowest mean is observed with calms.

MEAN STRENGTH OF WIND WITH THE DIFFERENT WINDS. SCALE 0-12.

	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Mean.
1903.									
April . . .	2.59	2.31	1.50	1.31	1.04	0.95	1.00	1.44	1.65
May . . .	3.13	2.81	1.89	1.78	1.54	1.91	2.18	2.04	2.21
June . . .	2.36	2.31	1.81	1.51	1.32	1.32	0.87	1.93	1.70
July . . .	3.02	3.18	2.19	1.52	1.66	1.81	1.36	2.67	2.35
August . . .	2.26	3.12	2.22	1.44	1.19	1.28	0.79	2.10	2.05
September . . .	2.66	2.64	1.81	1.28	1.00	1.01	1.84	3.23	1.66
October . . .	1.31	2.66	1.87	1.29	1.04	0.60	0.83	1.21	2.00
Means . . .	2.49	2.75	1.94	1.42	1.28	1.31	1.21	1.58	1.95

Thus the strongest winds are from the north-west and the lightest from the east, so that the barometric gradients at the South Orkneys must be quite different from those further south, where the strongest winds are from the east, while north-west winds are of average strength.* Indeed, the South Orkneys are within the "west wind system," which dominates the weather conditions in the South Atlantic, Indian and Pacific Oceans south of 40° S., although at times, especially in Winter, the South Orkney Islands, owing to the freezing up of the sea to the south, do come under the influence of the polar anti-cyclone, depressions which usually pass to the south then taking a more northerly course. (See Plate I.)

VISIBILITY.

From 10th May 1903 until 21st February 1904 the visibility was noted at every hour on a scale of 0-12 miles. As the horizon was only open to the north-west and south-east, the visibility in these two directions was assumed to be the mean. The following table shows the mean and extreme values for the months:—

Month.	Mean Visibility, Miles.	Highest Daily Mean.	Date.	Lowest Daily Mean.	Date.
1903.					
May	3.3	9.2	16th	1.0	10th
June	3.3	8.5	5th	0.7	26th
July	3.9	7.2	28th	0.6	20th
August	4.5	11.2	8th	0.6	23rd
September	5.9	12.0	8th	0.7	23rd
October	5.8	10.1	3rd	2.3	2nd
November	7.6	11.7	2nd	3.2	14th
December	7.0	11.3	6th	1.8	31st
1904.					
January	8.4	12.0	3rd and 4th	2.4	22nd
February	7.8	11.1	15th	3.5	1st
Means and Extremes	5.8	12.0	...	0.6	...

* See "Some Meteorological Results of the Scottish National Antarctic Expedition," *Scottish Geographical Journal* for May 1906, vol. xxii, p. 257.

The following are the mean daily values for the period under review :—

MEAN VISIBILITY FROM HOURLY OBSERVATIONS, LAURIE ISLAND, SOUTH ORKNEYS,
MAY 1903 TO FEBRUARY 1904. SCALE 0-12.

	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.	January.	February.
1	...	3.8	3.6	7.7	9.5	3.9	4.7	6.2	9.9	3.5
2	...	4.4	6.1	7.7	11.4	2.3	11.7	7.5	11.8	8.8
3	...	4.1	2.7	2.4	9.3	10.1	11.1	11.2	12.0	4.1
4	...	5.4	3.2	6.6	6.6	5.0	7.1	8.5	12.0	7.4
5	...	8.5	4.8	4.4	9.7	4.1	8.7	10.0	11.6	7.7
6	...	2.8	6.0	4.7	4.7	4.5	6.0	11.3	10.8	8.6
7	...	5.1	5.9	8.8	9.1	2.9	9.2	8.1	9.6	9.1
8	...	2.0	6.2	11.2	12.0	4.8	10.6	5.7	4.2	9.5
9	...	1.1	4.4	2.8	7.3	3.8	8.3	4.1	9.8	7.8
10	1.0	3.4	2.5	1.1	3.4	4.4	6.3	7.7	6.0	7.7
11	1.4	6.2	5.0	1.0	4.8	6.9	9.1	6.7	9.1	7.9
12	8.3	4.8	1.9	5.6	3.5	5.0	4.3	8.9	11.3	9.3
13	3.4	2.3	1.2	7.1	5.0	9.9	8.3	4.1	6.4	8.8
14	2.2	4.8	4.6	4.6	3.8	8.1	3.2	11.1	10.3	6.9
15	3.2	6.0	3.7	2.5	8.0	8.4	10.3	3.3	11.8	11.1
16	9.2	2.6	1.8	4.9	5.9	8.2	7.2	3.4	11.9	7.3
17	2.6	1.8	5.5	3.6	7.2	7.8	9.0	10.5	8.9	9.2
18	3.5	3.9	3.3	2.2	2.8	4.4	8.9	6.7	5.2	7.9
19	2.9	1.2	2.0	1.6	2.8	6.4	8.5	2.5	3.9	8.5
20	2.0	2.3	0.6	2.9	7.8	8.5	4.8	2.5	3.9	5.0
21	3.2	4.4	4.9	6.9	9.2	9.8	3.6	5.0	3.6	8.0
22	5.0	4.5	5.2	4.5	9.1	4.8	4.8	6.1	2.4	...
23	2.0	1.9	2.8	0.6	0.7	5.4	4.6	7.1	5.9	...
24	2.3	4.4	4.3	1.4	7.9	5.6	8.4	7.2	10.0	...
25	2.0	0.8	5.1	2.4	1.7	4.2	9.0	10.8	8.7	...
26	3.5	0.7	5.8	7.3	1.0	7.5	11.2	10.2	5.6	...
27	1.5	0.8	2.9	3.8	4.7	6.9	9.5	3.7	4.9	...
28	3.6	2.0	7.2	2.6	1.4	3.8	7.7	10.5	6.6	...
29	2.1	2.6	2.6	4.6	3.8	4.5	4.9	5.6	9.9	...
30	4.6	1.0	1.2	5.6	2.8	4.7	6.2	9.7	9.0	...
31	3.2	...	2.6	5.7	...	4.2	...	1.8	11.5	...
Mean	3.3	3.3	3.9	4.5	5.9	5.8	7.6	7.0	8.4	7.8

The following table shows mean hourly values of visibility for the period May 1903 to February 1904. It will be seen (see Plate III.) that on the mean of the period under review there is a steady increase in the visibility until 9 A.M., followed by a slight fall during the three hours ending noon. A rapid rise then occurs, the maximum for the day being recorded in the three hours ending 3 P.M., and then the values fall away to the minimum at midnight. The late forenoon minimum is probably associated with the formation of cloud, while the increased clearness which follows is related to the diurnal rise in temperature which occurs at this time. The late forenoon minimum is well marked in Winter and Spring, as well as for the two Autumn months, but in Summer it shows itself more in the form of a retardation in the general rise, there being at this season a pronounced minimum from 5 to 7 A.M. and a secondary minimum at 3 and

4 P.M., with maxima at 4 A.M. and 2 P.M. The first minimum is probably due to the occurrence of fog and mist in the early morning, while the afternoon minimum is related to the condensation setting in after the temperature has begun to fall.

MEAN HOURLY VISIBILITY, MAY 1903 TO FEBRUARY 1904. SCALE 0-12.

	Mdt.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean.
1903.																										
May *	2.1	2.0	1.7	1.8	3.2	3.5	3.7	3.9	3.6	4.4	5.2	4.4	4.9	5.6	4.7	4.6	4.2	3.8	2.1	1.8	2.4	2.3	1.9	1.9	1.7	3.8
June	2.2	2.3	2.3	2.0	3.0	3.5	3.4	3.0	5.2	5.7	4.5	4.0	4.5	6.1	4.3	4.3	3.2	2.5	2.1	1.6	1.8	2.3	2.6	1.8	2.2	3.3
July	2.0	1.9	2.1	2.4	3.3	3.4	3.3	4.0	5.6	6.6	5.8	5.1	4.5	5.5	5.7	4.9	5.7	4.1	3.6	3.2	2.8	2.8	2.4	2.1	2.1	3.9
August	2.5	2.1	2.7	2.6	2.6	2.9	3.5	4.8	5.9	6.0	6.1	5.8	6.8	7.3	6.8	6.5	6.3	5.8	4.3	3.8	3.6	3.5	3.3	2.8	2.4	4.5
September	4.5	4.5	4.4	4.5	4.7	6.1	6.7	7.7	7.2	7.1	7.0	6.1	4.9	6.4	6.5	7.2	7.5	7.2	7.4	5.8	4.0	4.8	5.0	4.9	4.3	5.9
October	3.6	3.6	4.1	5.3	6.9	7.2	7.3	7.0	7.1	6.7	6.7	5.7	6.0	7.4	7.1	6.9	6.4	6.4	6.0	5.9	4.4	3.5	3.6	3.6	3.5	5.8
November	5.1	4.9	6.4	7.3	7.6	5.7	5.6	6.1	7.1	8.4	8.7	8.9	8.9	9.3	8.9	9.0	8.9	9.1	9.2	9.7	9.3	7.5	5.6	5.2	5.0	7.6
December	5.0	5.8	5.5	6.4	6.1	5.4	6.2	6.5	6.2	7.3	7.3	7.4	8.2	8.5	8.6	8.7	7.7	7.8	8.1	7.1	7.4	8.0	7.4	6.2	5.0	7.0
1904.																										
January	6.6	7.5	8.3	8.4	8.3	7.8	7.2	7.2	7.9	7.8	8.0	8.3	9.3	10.2	10.2	9.3	9.1	9.4	9.1	8.5	8.0	8.4	8.0	7.1	6.9	8.3
February *	4.8	4.8	6.0	8.0	8.9	7.8	7.8	8.2	8.8	8.0	7.8	7.4	8.0	8.2	9.0	7.9	9.3	9.6	9.6	8.7	9.4	7.8	6.3	5.0	4.8	7.8
Mean.	3.84	3.94	4.35	4.87	5.46	5.33	5.47	5.90	6.46	6.90	6.71	6.31	6.60	7.45	7.18	6.93	6.83	6.57	6.21	5.61	5.31	5.09	4.61	4.06	3.79	5.75
Winter	2.2	2.1	2.4	2.3	3.0	3.3	3.4	4.1	5.6	6.1	5.1	5.0	5.3	6.3	5.3	5.2	5.1	4.1	3.3	2.9	2.7	2.9	2.8	2.2	2.2	3.9
Spring	4.4	4.3	5.0	5.7	6.4	6.8	6.5	6.9	7.1	7.4	7.5	6.9	6.6	7.7	7.5	7.7	7.6	7.6	7.7	7.1	5.9	5.3	4.7	4.0	4.3	6.4
Summer	5.5	6.0	6.6	7.6	7.8	7.0	7.1	7.3	7.6	7.7	7.7	7.7	8.5	9.0	9.3	8.6	8.7	8.9	8.9	8.1	8.3	8.1	7.2	6.1	5.6	7.7

* Mean of May, 22 days ; of February, 21 days.

HUMIDITY OF THE AIR.

Owing to the great doubt that attaches to the behaviour of the wet bulb thermometer at and below the freezing point, I have considerable diffidence in bringing forward the following data. After consultation with the leading British meteorologists, including the late Dr BUCHAN and Dr W. N. SHAW, it was considered inexpedient in any case to attempt to deduce humidity values when the temperature of the wet bulb fell below 10°. As a considerable number of observations during the Winter and Spring were below 10°, the mean relative humidity for these months has not been determined. In the following table will be seen the hourly depression of the wet bulb for the eleven months and the seasons :—

MEAN HOURLY DEPRESSION OF THE WET BULB AT LAURIE ISLAND, SOUTH ORKNEYS, 1903-1904.

	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdt.	Mean.
1903.																									
April	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.6	0.7	0.6	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5
May	0.4	0.4	0.4	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3
June	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.2	0.4	0.4	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
July	0.4	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
August	0.5	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.6	0.5	0.6	0.7	0.6	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
September	0.4	0.5	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.2	0.3	0.4	0.5	0.5	0.3	0.4	0.5	0.5	0.4	0.5	0.5	0.4
October	1.0	0.9	0.9	0.9	1.1	1.0	1.0	1.1	1.0	0.9	0.9	0.9	0.9	0.9	1.1	1.0	1.0	0.9	0.9	0.9	1.0	0.9	0.9	1.0	1.0
November	0.9	0.8	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.3	1.4	1.4	1.1	1.3	1.4	1.2	1.2	1.2	1.7	1.3	1.2	1.0	1.0	1.0
December	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.9	0.9	1.1	1.2	1.4	1.2	1.3	1.3	1.1	1.1	1.0	0.8	0.7	0.8	0.8	0.7	0.7	0.9
1904.																									
January	1.1	1.3	1.4	1.5	1.5	1.3	1.3	1.3	1.4	1.6	1.6	1.6	1.6	1.5	1.5	1.7	1.4	1.4	1.5	1.2	1.2	1.2	1.2	1.2	1.4
February *	1.1	1.3	1.3	1.4	1.4	1.3	1.2	1.4	1.3	1.2	1.2	1.2	1.2	1.4	1.5	1.5	1.5	1.4	1.4	1.5	1.3	1.4	1.1	1.1	1.3
Mean	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7
April and May	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4
June-August	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.5
September-November	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.9	1.0	0.9	0.8	0.8	1.0	0.9	0.8	0.8	0.8	0.8
December-February	1.0	1.1	1.1	1.2	1.2	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.3	1.4	1.4	1.4	1.3	1.3	1.2	1.1	1.1	1.1	1.0	1.0	1.2

* Mean of 21 days.

It will be observed that on the mean of the whole period the curve is of a very simple character, showing a very slight maximum at 3 P.M., but no decided minimum. The depression of the wet bulb is very small, ranging only from $0^{\circ}7$ to $0^{\circ}9$. In Autumn and Winter there may be said to be practically no diurnal range in the humidity values deduced by this method; but in Spring and Summer it will be noticed that the diurnal range is fairly well marked. In the table showing the mean relative humidity for the hours and the day, utilising Glashier's hygrometrical tables for the purpose, it will be seen that in Summer there is a well-marked maximum in the late evening and early morning hours, and a minimum in the afternoon about 3 P.M. The variation between the mean hourly values is, however, very small, amounting to less than 3 per cent. The Summer curve of vapour pressure shows the maximum at 1 P.M. and a minimum from about 2 to 4 A.M., but, as in the case of the relative humidity, the daily range is insignificant, the maximum being 0.163 inch at 1 P.M. and the minimum 0.154 inch at 2 and 4 A.M. It is somewhat unfortunate that no use could be made of the curves obtained from the Richard hygrograph during the Autumn and Winter months owing to the frequency of blizzards which interfered with the registration. In connection with the utilisation of the dry and wet bulb thermometer readings for the purpose for which they are intended, it is very desirable that some comprehensive scheme of investigation should be carried out at low temperatures and under different atmospheric conditions with a view towards the preparation of hygrometrical tables to be based upon a definitive formula approved of by the International Meteorological Committee. In this way observations obtained in different countries from the instrument in question could be directly compared with each other, and the results rendered comparable, which is impossible with the present system of each country using tables based on different formulæ. This, of course, applies more particularly to temperatures below the freezing point and to lower temperatures, about which great dubiety exists.

MEAN HUMIDITY, SOUTH ORKNEYS.

	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdt.	Mean.
1903.																									
April .	88.5	86.2	88.6	88.1	87.5	87.4	87.6	87.4	87.1	83.4	85.0	85.1	84.1	86.2	87.4	87.5	87.5	89.0	87.8	88.8	90.7	90.3	90.0	88.3	87.5
October .	82.7	83.4	84.3	83.2	82.1	82.8	82.9	81.3	83.1	84.8	84.6	85.8	85.9	86.0	83.1	85.1	84.1	84.4	84.3	84.0	83.1	84.2	84.7	84.1	83.9
November .	84.6	85.3	84.9	85.4	86.4	85.9	85.3	85.3	84.7	83.2	81.5	80.7	81.2	84.1	81.2	80.0	81.5	80.8	80.6	79.3	79.0	80.0	82.9	82.8	82.8
December 1904.	89.0	88.1	89.0	88.6	90.2	88.9	88.9	88.1	87.9	86.0	86.0	84.6	86.3	85.6	84.9	86.3	86.9	87.9	89.1	89.1	88.9	88.8	89.6	90.2	87.8
January .	83.8	82.2	81.9	80.4	80.7	82.0	82.4	83.7	82.5	81.7	81.6	81.7	81.3	81.8	82.7	81.5	82.3	82.1	81.4	83.9	83.4	83.1	83.1	83.4	82.4
February .	86.6	85.2	85.2	85.2	85.3	85.9	86.4	85.2	87.3	87.7	87.8	87.3	87.3	85.9	84.4	84.6	84.4	84.8	84.8	83.3	84.8	84.2	87.2	87.1	85.8
Mean of 6 months.	85.8	85.1	85.6	85.2	85.4	85.6	85.6	85.2	85.4	84.5	84.4	84.2	84.3	84.9	84.0	84.2	84.4	84.8	84.7	84.8	85.0	85.1	86.2	86.0	85.0
Mean of Dec., Jan., and Feb.	86.3	85.2	85.4	84.7	85.4	85.9	85.9	85.7	85.9	85.1	85.1	84.5	85.0	84.4	84.0	84.1	84.5	84.9	85.1	85.0	85.7	85.4	86.6	86.9	85.3

HOURLY VALUES OF VAPOUR PRESSURE, SOUTH ORKNEYS.

	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11	Mdt.	Mean.
April .	In. .119	In. .117	In. .120	In. .121	In. .117	In. .117	In. .118	In. .119	In. .121	In. .119	In. .123	In. .121	In. .119	In. .122	In. .123	In. .121	In. .119	In. .116	In. .114	In. .116	In. .117	In. .118	In. .117	In. .114	In. .119
October .	.131	.131	.131	.130	.130	.131	.132	.132	.136	.141	.143	.144	.144	.147	.142	.145	.142	.140	.138	.137	.135	.136	.137	.135	.137
November .	.133	.133	.132	.134	.137	.137	.138	.138	.141	.142	.139	.139	.140	.143	.140	.137	.137	.134	.133	.131	.129	.129	.130	.129	.136
December .	.151	.150	.152	.152	.155	.155	.157	.159	.160	.157	.159	.162	.161	.158	.158	.158	.158	.159	.158	.158	.156	.154	.156	.156	.157
January .	.150	.151	.150	.148	.148	.151	.152	.155	.154	.154	.155	.156	.155	.156	.157	.154	.153	.152	.150	.152	.150	.149	.149	.148	.152
February .	.164	.162	.162	.161	.163	.164	.165	.164	.167	.171	.173	.171	.171	.169	.171	.169	.168	.164	.163	.162	.165	.162	.167	.166	.166
Means of 6 months.	.141	.141	.141	.141	.142	.142	.144	.144	.146	.147	.149	.148	.148	.150	.148	.147	.149	.144	.143	.143	.142	.141	.143	.141	.144
Summer .	.155	.154	.155	.154	.155	.157	.158	.159	.160	.161	.162	.162	.163	.162	.162	.160	.160	.158	.157	.157	.155	.157	.157	.157	.158

UPPER CLOUD MOVEMENT.

The direction from which upper clouds were moving was noted at 129 hours during the period April 1st, 1903, to February 21st, 1904. It will be seen from the following table that this motion was almost entirely from NW., W., and SW. Only on one occasion, viz., August 27th, 1903, was movement from an easterly direction recorded, that direction being NE.

DIRECTION FROM WHICH UPPER CLOUDS WERE MOVING.

Number of Times observed.

	N.	NW.	W.	SW.	S.	SE.	E.	NE.
Spring .	2	10	16	16	4	0	0	0
Summer .	1	14	6	0	0	0	0	0
Autumn .	0	12	13	2	1	0	0	0
Winter .	0	10	11	8	2	0	0	1
Total, 11 months .	3	46	46	26	7	0	0	1

This table indicates a distinct seasonal change in the direction of the upper cloud motion. A relatively large amount of motion from the SW. is confined to Winter and Spring, while in Summer NW. is the dominant direction, and in Autumn NW. and W. are nearly equal in frequency.

Note.—It may be pointed out that the barometric ranges in clear and cloudy weather on pages 261 and 262 agree in their general characteristics with those given in a paper on this subject by the late Dr BUCHAN and Mr OMOND,* except as regards cloudy weather in Winter. That is, there is in fine weather a tendency towards a curve with a single maximum in the forenoon and a minimum near midnight, while in cloudy weather these conditions are reversed.

* *Trans. Roy. Soc. Edin.*, vol. xlii. page 448.

OBSERVATIONS AT CAPE PEMBROKE, FALKLAND ISLANDS.

FROM the inception of the Expedition the utility of a base station at the Falkland Islands was freely recognised, and through the co-operation of Dr W. N. SHAW, F.R.S., a complete copy of the observations made six times daily at Cape Pembroke Lighthouse was obtained from the Meteorological Office, the values being printed *in extenso* in the first portion of this report. From these observations means have been computed which show the salient features of the meteorology for the years 1903 and 1904. Although the Antarctic work of the "Scotia" terminated in April 1904, it was considered advisable to include the observations for the whole of that year, in view of the circumstances that the South Orkney observations were being continued under Argentine auspices, while at the same time a French expedition under the leadership of Dr JEAN CHARCOT was wintering at Wandel Island, at the southern extremity of Gerlache Strait, Graham's Land.

During the visit of the "Scotia" to Port Stanley, the Cape Pembroke station was inspected, and several new instruments and screens for their exposure sent out by the Meteorological Office were installed. The observer, Mr JOHN PEARCE, principal keeper of the lighthouse, kindly agreed to keep a Richard barograph running and to send the sheets home, and from these records (which are still continued) hourly values of barometric pressure for the three years 1903-1905 have been computed. To further complete the meteorological equipment, the Governor of the Falkland Islands, His Excellency Sir WILLIAM GREY WILSON, K.C.M.G., undertook to look after a Campbell Stokes sunshine recorder, and to transmit the cards to the Meteorological Office, where they have been tabulated. With regard to the barometric observations, all the readings have been corrected to 32° and reduced to mean sea-level, but the correction to standard gravity, which is + 0.018 inch, has not been applied.

BAROMETRIC PRESSURE.

The mean barometric pressure for the two years under review was 29.618 inches, being highest 29.726 inches in October, and lowest 29.392 inches in March. The highest individual reading was 30.429 inches on September 5, 1903, and the lowest 28.354 inches on January 2, 1904, showing a range of 2.075 inches. The greatest monthly range was 1.605 inch for January 1904, and the least 0.691 inch in July 1903, the comparatively small range being due to the almost complete absence of anticyclonic systems, and the infrequency of very deep depressions. The highest mean pressure 29.857 inches was recorded in October 1903, and the lowest 29.302 inches in March of the same year, showing a range of 0.555 inch between the extreme mean monthly

values. Taking seasonal means, the highest 29·657 inches occurs in Spring, and the lowest 29·572 in Autumn, the range being only 0·085 inch.

DIURNAL RANGE OF PRESSURE.

During the visit of the "Scotia," as already stated, a barograph was left at Cape Pembroke, from which hourly values have been tabulated. The indications of this instrument have been controlled by the eye observations made six times daily, to which the deduced values have been referred for the years 1903 and 1904, it having been found that the mean pressure obtained from readings made at intervals of four hours is exactly the same as that derived from hourly observations. For the year 1905 the eye readings made at 8 A.M. and 8 P.M. have been employed as a check. In order to get the true mean, *i.e.* the mean of 24 hourly readings, the following corrections have been used in dealing with the 1905 eye observations, *viz.* :—

Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
-.004	-.006	-.006	-.005	-.004	-.001	-.003	-.006	-.008	-.008	-.004	-.003	-.005 inch.

The following table shows the mean barometric pressure for the three years, corrected to 32° and reduced to mean sea-level :—

MEAN MONTHLY BAROMETRIC PRESSURE.

	1903. Inches.	1904. Inches.	1905. Inches.	Mean. Inches.
January . . .	29·519	29·567	29·544	29·544
February . . .	·422	·610	·422	·485
March	·302	·482	·606	·463
April	·626	·724	·595	·648
May	·626	·673	·664	·654
June	·500	·650	·262	·471
July	·787	·640	·623	·683
August	·753	·607	·404	·588
September . .	·733	·407	·598	·579
October	·857	·596	·548	·667
November . . .	·782	·570	·634	·662
December . . .	·731	·676	·567	·658
Year	29·636	29·600	29·539	29·592

Means :—Spring 29·636, Summer 29·562, Autumn 29·588, Winter 29·581 inches.

It was found that the monthly differences between the Richard barograph and the eye readings varied somewhat over the period ; and although the variation was small, for the purposes of this investigation, which is to show the departure at each hour from the mean of the day, it was considered desirable to take the monthly and seasonal means from the above table of eye readings. In other words, the barograph values were used differentially.

The following table shows the departure from the mean in thousandths of an inch for the months and the seasons :—

SHOWING THE DEPARTURE FROM THE MEAN OF HOURLY VALUES OF BAROMETRIC PRESSURE AT CAPE PEMBROKE LIGHTHOUSE, FALKLAND ISLANDS, THREE YEARS 1903-1905. Lat. 51° 41' S., Long. 57° 42' W.

Thousandths of an Inch.

	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	9	10	11	Mid-night.	Mean Inches.
January	3	2	1	5	8	11	9	6	1	2	4	5	6	8	12	13	13	6	3	2	6	9	9	6	29.544
February	9	2	2	1	1	6	8	8	6	3	3	8	13	15	18	16	12	9	2	3	9	12	13	13	485
March	7	5	4	6	12	14	14	10	5	1	6	12	12	15	17	18	15	12	6	3	1	4	5	7	463
April	1	3	6	4	2	0	2	4	2	0	3	8	10	8	4	1	4	6	6	6	6	5	2	1	648
May	3	3	5	6	7	4	3	0	3	5	3	0	3	5	2	2	4	6	6	5	3	1	2	1	654
June	0	1	3	5	5	4	1	1	5	11	7	1	4	12	10	3	0	1	2	6	4	5	3	3	471
July	8	5	3	4	5	5	4	1	0	3	3	3	10	16	14	9	4	1	5	8	11	11	11	11	683
August	3	7	14	14	14	8	4	3	8	8	8	6	1	3	2	1	6	9	10	11	8	5	2	1	588
September	10	5	1	5	6	5	3	1	0	2	6	10	16	19	17	14	8	2	10	15	18	17	15	12	579
October	11	7	6	4	3	3	6	3	3	6	12	17	20	21	21	17	10	1	8	15	17	17	15	15	667
November	9	6	1	2	3	3	3	1	5	10	14	15	12	13	11	11	7	2	4	10	16	18	17	14	662
December	8	3	0	1	1	1	1	2	9	10	10	14	15	16	14	9	6	0	5	10	16	19	16	14	658
Spring	10	6	2	0	0	0	2	1	3	6	11	14	16	17	16	14	8	0	7	13	17	17	16	14	29.636
Summer	7	1	0	1	3	6	6	4	1	3	6	9	11	13	15	13	10	5	0	5	10	13	13	11	563
Autumn	1	0	2	1	0	3	4	6	6	4	1	3	8	10	9	7	4	1	2	3	3	3	2	2	583
Winter	2	1	5	8	8	6	3	1	4	7	6	1	5	10	9	4	1	4	6	8	8	7	6	4	667
Year	5	1	1	2	1	0	2	2	1	1	2	6	10	13	12	9	6	0	4	7	9	10	9	8	29.592

Note.—The heavy type indicates above the average, and the italic type below the average.

The above values have been corrected for midnight differences, but have not been smoothed in any way.

Dealing with the seasonal and annual results (see Plate III.), the following characteristics are shown :—

Spring.—At this season the morning minimum and maximum are hardly noticeable, the most conspicuous feature being the deep afternoon minimum and high evening maximum, which are more pronounced than at any other season of the year.

In *Summer* the general features of the curve are much the same as in Spring. The morning minimum is feebly marked, while the morning maximum is well shown. There is a long-drawn-out afternoon minimum, the values being below the mean of the day from 9 A.M. to 5 P.M., the absolute minimum being reached at 2 P.M., or one hour later than in Spring, while the evening maximum is also slightly retarded.

In *Autumn* the curve, as compared with those of the two previous seasons, shows important modifications. The double maxima and minima are clearly shown, and at this season the morning minimum falls below the mean of the day. The morning maximum is retarded till about 8.30 A.M., while the afternoon minimum is reduced and occurs at 2 P.M.; the evening maximum is small and ill-defined.

In *Winter* the morning minimum is deeper and more conspicuous than at any other season, and is succeeded by a short maximum which occurs at 10 A.M.; the afternoon minimum, while comparatively deep, is spread over a short period, while the evening maximum extends over the nine hours ending with 1 A.M.

Taking the *Annual* values, the double period is clearly seen, but the afternoon

minimum and evening maximum are by far the most pronounced phases of the diurnal period. The following shows the hours of the double period for the seasons and the year:—

	Morning Minimum.	Diff. from Mean.	Morning Maximum.	Diff. from Mean.	Afternoon Minimum.	Diff. from Mean.	Evening Maximum.	Diff. from Mean.	Range.
		in.		in.		in.		in.	
Spring .	5 A.M.	·000	7 A.M.	+·002	2 P.M.	-·017	9.30 P.M.	+·017	·034
Summer .	3	·000	6.30	+·006	3	-·015	10.30	+·013	·028
Autumn .	3	-·002	8.30	+·006	2	-·010	9	+·003	·016
Winter .	4.30	-·008	10	+·007	2	-·010	8.30	+·003	·018
Year .	4	-·002	7.30	+·002	2	-·013	10	+·010	·023

The following table shows the seasonal values for the three years. These values will be found at some hours to differ by ·001 inch from those given in the previous table—this small divergence being due to the correction for “midnight differences,” which varies a little according as to whether the mean of the whole period of three years is taken, or whether each year is corrected separately.

SHOWING THE DEPARTURE FROM THE MEAN FOR THE FOUR SEASONS AND THE YEAR OF HOURLY VALUES OF BAROMETRIC PRESSURE AT CAPE PEMBROKE, FALKLAND ISLANDS, 1903-1905.

Thousandths of an Inch.

Hour.	Spring.				Summer.				Autumn.				Winter.				Year.			
	1903.	1904.	1905.	Mean.	1903.	1904.	1905.	Mean.	1903.	1904.	1905.	Mean.	1903.	1904.	1905.	Mean.	1903.	1904.	1905.	Mean.
1	12	10	6	9	8	1	15	6	5	5	4	1	2	2	1	2	4	4	7	5
2	7	7	1	5	1	2	7	1	6	2	3	0	1	0	3	1	0	1	3	1
3	4	4	4	1	0	0	1	0	4	3	1	2	3	4	6	4	0	2	2	1
4	3	3	6	0	2	3	1	1	1	4	1	1	7	7	11	8	0	2	3	2
5	2	1	6	1	5	7	2	3	4	5	2	0	7	6	13	9	1	2	4	2
6	4	2	3	1	9	11	1	6	5	4	4	2	5	2	11	6	4	1	2	1
7	5	1	2	1	10	12	3	6	9	1	6	5	0	0	10	3	6	2	1	2
8	4	0	2	1	8	9	5	4	12	2	9	6	5	2	6	0	7	2	0	3
9	2	4	4	3	3	5	10	1	13	3	10	7	8	7	1	5	6	0	1	2
10	5	7	7	6	1	2	12	3	10	3	7	5	10	10	2	7	4	0	2	1
11	10	11	11	11	2	0	15	6	6	6	4	1	8	6	4	6	0	3	4	2
Noon	15	14	14	14	7	4	17	9	2	10	1	3	2	1	1	1	4	7	7	6
1	18	16	16	17	6	8	18	11	1	13	7	7	5	6	4	5	8	11	11	10
2	21	18	16	18	9	11	15	12	4	14	10	9	10	12	9	10	11	14	13	13
3	19	17	14	17	9	13	15	12	5	11	10	9	9	10	7	9	10	13	11	11
4	18	15	8	14	10	16	11	12	4	6	10	7	5	4	4	4	10	10	8	9
5	12	10	3	8	9	15	5	10	3	1	6	3	2	0	2	0	6	7	3	5
6	2	3	5	0	7	9	2	5	1	5	5	0	1	4	7	4	2	1	3	0
7	4	5	13	7	3	6	9	0	0	10	3	2	3	6	8	6	1	3	7	4
8	11	10	17	13	1	1	15	6	2	12	1	3	6	8	11	8	4	8	11	8
9	17	12	22	17	5	6	22	11	2	12	0	3	6	6	10	7	6	9	13	9
10	19	14	21	18	9	8	23	13	2	12	1	4	5	5	9	6	7	10	14	10
11	16	15	17	16	8	9	23	13	3	7	3	2	5	4	6	5	6	8	12	9
Mdt.	14	13	14	14	7	6	21	11	4	8	3	2	4	3	6	4	5	7	11	8

Note.—The heavy type indicates an excess, and the italic type a defect.

Hence it will be seen that the broad features of seasonal distribution are substantially the same for each of the years under review.

TEMPERATURE.

The mean temperature for the two years under consideration at a height of 54 feet above sea-level was $42^{\circ}5$, being highest $48^{\circ}8$ in February and lowest $35^{\circ}4$ in July, showing a difference of $13^{\circ}4$ between the extremes. The highest temperature recorded was 63° at 4 P.M. on February 1, 1903, and again at exactly the same day and hour in 1904, and the lowest 24° , which occurred on July 31, 1903, at midnight, and again on July 27, 1904, at the same hour. The extreme range was thus 39° , but as the values given are deduced from four-hourly eye readings, and not from registering instruments, the absolute values were probably a degree or two above and below those given. The greatest monthly range 27° occurred in February 1903, and again in December of the same year, and the least range 13° in August 1904. The warmest month, February 1904, had a mean temperature of $49^{\circ}9$, and the coldest $33^{\circ}8$ in July of the same year, showing a range of $16^{\circ}1$ in the mean monthly values. The seasonal values show a range from $47^{\circ}8$ in Summer to $37^{\circ}4$ in Winter, a difference of $10^{\circ}4$. At all seasons the conserving influence of the surrounding ocean is clearly shown in the small temperature variations.

DIURNAL RANGE OF TEMPERATURE.

The diurnal range of temperature is approximately indicated in the following table, which shows the mean values at four-hourly intervals for the two years.

	4 A.M.	8 A.M.	Noon.	4 P.M.	8 P.M.	Mid-night.	Range.	Mean.
Spring . . .	39.3	41.7	44.1	43.3	41.0	39.7	4.8	41.5
Summer . . .	44.9	48.2	50.4	50.1	47.4	45.6	5.5	47.8
Autumn . . .	41.6	42.9	45.7	45.0	43.1	42.2	4.1	43.4
Winter . . .	36.7	36.7	38.9	38.1	37.1	36.8	2.1	37.4
Year . . .	40.4	42.4	44.8	44.1	42.2	41.1	4.4	42.5

Hence at all seasons the maximum occurs at noon and the minimum at 4 A.M., but in the absence of hourly values it is impossible to give the warmest and coldest hours with exactitude.

AMOUNT OF CLOUD.

The mean amount of cloud (overcast sky or fog = 10.0) was 7.1, the cloudiest months being June and December with a mean of 7.6, while the minimum 6.6 occurs in February, March, October, and November. The cloudiest months were May, June, and December 1904, with a mean of 8.1, and the clearest November 1903, with a mean of 6.2. The seasonal values show little variation, the cloudiest period of the year being Winter, with a mean of 7.2, and the clearest Spring, with a mean of 6.9. A notable feature is the total absence of cloudless skies, there being only two days in the two years on which the mean amount of cloud was less than 2.0.

DIURNAL PERIOD.

The following table shows the mean amount of cloud at four-hourly intervals for the seasons and the year.

	4 A.M.	8 A.M.	Noon.	4 P.M.	6 P.M.	Mid-night.	Range.	Mean.
Spring . . .	7.0	7.2	7.3	7.1	6.5	6.3	1.0	6.9
Summer . . .	7.0	7.2	7.3	7.4	7.2	6.6	0.8	7.1
Autumn . . .	6.7	7.3	7.5	7.5	6.8	6.2	1.3	7.0
Winter . . .	6.8	7.4	7.5	7.8	6.8	6.7	1.1	7.2
Year . . .	6.9	7.3	7.4	7.5	6.7	6.5	1.0	7.1

Hence the maximum occurs at all seasons either at noon or 4 P.M., while the minimum is recorded at midnight.

SUNSHINE.

On the visit of the "Scotia" to Port Stanley in January 1903 a Campbell Stokes sunshine recorder was left in charge of the Governor, His Excellency Sir WILLIAM GREY WILSON, K.C.M.G. The instrument was exposed in a good situation at Government House; and although hills ranging from 800 to 1700 feet to the south and west do not permit of a clear horizon in these directions, yet they are so far away that it is not likely that the amount of sunshine is materially reduced. The following table gives the mean amount of sunshine in hours, along with the percentage of the possible duration; and the frequency of sunless days, the total possible for each day in the year, being calculated from the data given in Burdwood's Azimuth Tables.*

	Sunshine 1903 and 1904.		Sunless Days.
	Mean Hours.	Per cent. of Possible.	Mean.
January . . .	160.1	33	1.5
February . . .	158.1	39	2.0
March . . .	152.8	40	1.5
April . . .	98.8	32	6.0
May . . .	66.8	25	7.5
June . . .	54.4	24	10.5
July . . .	64.8	26	9.5
August . . .	103.7	35	7.5
September . . .	114.8	33	5.0
October . . .	149.4	36	2.0
November . . .	186.4	41	2.5
December . . .	164.1	32	1.5
Year . . .	1474.2	34	57.0

* "Sun's True Bearing or Azimuth Tables, computed for intervals of four minutes between the parallels of latitude 30° and 60° inclusive," by John Burdwood, Staff Commander R.N. London, 1894.

The seasonal values show that in Spring the percentage of total possible sunshine received is 37, while Summer has 34 per cent., Autumn 33 per cent., and Winter 29 per cent., while on the mean of the year 34 per cent. is recorded. November is the sunniest month with 41 per cent. of the possible, and June the dullest with 24 per cent. The greatest amount of sunshine recorded in any month in the two years was in March 1903, viz. 45 per cent. of the total possible, the lowest value, 17 per cent., being recorded in May 1904. The mean annual number of days with no sunshine is 57, the greatest number being 13 in June 1904, while in January of the same year there was not a day without some. Taking sunless days by seasons, Spring has 9·5, Summer 5, Autumn 15, and Winter 27·5. The greatest amount of sunshine is recorded with N., N.W., and W. winds, but in months in which winds from S., S.W., S.E., and N.E. are frequent, sunshine is deficient.

WIND.

The wind direction was recorded to sixteen points, but for the purposes of discussion the values have been resolved to eight points by halving the intermediate points between the adjacent octants. Perhaps a more correct method would have been to divide the intermediate points with regard to the relative frequency of the contiguous octants, but for the broad features of seasonal distribution the values obtained may be regarded as close approximations.

The following are the seasonal values per cent.:—

Season.	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.	Calm.
Spring . . .	21	24	22	13	4	1	2	13	0
Summer . . .	25	21	21	18	5	4	5	11	0
Autumn . . .	20	29	24	12	5	2	1	7	0
Winter . . .	22	26	23	10	6	2	2	9	0
Year	19·3	25·1	22·6	12·8	4·9	2·3	2·8	9·9	0·3

Hence the most frequent winds are from the N.W., while the most uncommon are the S.E. There is not much seasonal variation except in the case of S.W. and N.E. winds. The former are nearly twice as frequent in Summer as in Winter, while N.E. winds are at a maximum in Spring and at a minimum in Autumn. Winds from S.E. and E. are very rare, with however a pronounced Summer maximum, which is also shared with winds from the S.W.

DIURNAL VARIATION IN THE WIND DIRECTION.

In order to see whether there was any diurnal variation in the wind direction the seasonal observations have been analysed, with the following results :—

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SHOWING THE NUMBER OF TIMES THE WIND BLEW FROM DIFFERENT DIRECTIONS AT
INTERVALS OF FOUR HOURS FOR THE SEASONS AND THE YEAR.

	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.	Calm.
SPRING.									
4 A.M.	39	50	48	15	5	2	4	19	0
8 „	41	50	39	17	7	2	4	22	0
Noon	37	35	37	33	4	3	4	29	0
4 P.M.	27	42	38	32	7	3	4	28	1
8 „	38	43	40	23	9	3	3	22	1
Mdt.	42	46	41	20	6	3	3	20	1
SUMMER.									
4 A.M.	26	49	45	23	8	5	12	12	1
8 „	24	35	42	33	10	5	12	19	1
Noon	24	28	29	42	9	8	9	31	1
4 P.M.	33	31	30	39	9	9	11	19	0
8 „	30	35	40	36	9	6	7	16	2
Mdt.	24	53	41	23	10	5	9	16	0
AUTUMN.									
4 A.M.	34	62	44	16	10	3	1	14	0
8 „	36	51	44	24	9	6	0	14	0
Noon	30	53	47	26	8	3	2	15	0
4 P.M.	31	51	44	28	6	4	3	14	3
8 „	40	51	45	18	9	6	2	13	0
Mdt.	44	58	46	14	10	2	3	7	0
WINTER.									
4 A.M.	46	45	44	17	14	1	4	13	0
8 „	41	51	40	16	12	3	4	16	1
Noon	42	50	41	18	7	5	3	17	1
4 P.M.	36	42	45	21	10	5	3	21	1
8 „	35	44	47	18	14	2	5	19	0
Mdt.	42	57	37	14	10	2	6	16	0
YEAR.									
4 A.M.	145	206	181	71	37	11	21	58	1
8 „	142	187	165	90	38	16	20	71	2
Noon	133	166	154	119	28	19	18	92	2
4 P.M.	127	166	157	120	32	21	21	82	5
8 „	143	173	172	95	41	17	17	70	3
Mdt.	152	214	165	71	36	12	21	59	1
YEAR. PER CENT.									
4 A.M.	20	28	25	10	5	1	3	8	0
8 „	20	26	22	12	5	2	3	10	0
Noon	18	23	21	16	4	3	2	13	0
4 P.M.	17	23	22	16	4	3	3	11	1
8 „	20	24	24	13	6	2	2	9	0
Mdt.	21	29	22	10	5	1	3	9	0
Mean	19	25	23	13	5	2	3	10	0

It will be observed that there is a distinct tendency for the wind to veer (using the term with reference to wind circulation in the southern hemisphere) during the forenoon, and to back during the afternoon and evening hours. This effect is most pronounced in Spring and Summer, while in Winter it may be said to practically disappear. A curious feature in Spring and Summer is that both S.W. and N.E. winds attain their maximum frequency at noon, the minimum in N.W. and W. winds being recorded at this hour. The variation is most pronounced in Summer when the solar effect is at a maximum.

Cape Pembroke Lighthouse is situated at the eastern extremity of a narrow peninsula running east and west, almost wholly composed of sand dunes, which absorb the sun's heat by day and are subject to strong radiation at night, which doubtless strongly influences the direction of the wind, owing to the unequal heating of the land and the contiguous water surfaces, the effect being probably increased by the land mass of the Falklands lying to the westward.

FORCE OF THE WIND.

The diurnal variation in the force of the wind may be gathered from the following table, the scale being the usual one, varying from 0 to 12 :—

	4 A.M.	8 A.M.	Noon.	4 P.M.	8 P.M.	Mid-night.	Mean.
Spring	4.1	4.3	4.6	4.9	4.5	4.5	4.4
Summer	4.1	4.5	4.7	4.5	4.3	4.4	4.4
Autumn	4.4	4.7	4.7	4.6	4.4	4.2	4.4
Winter	4.3	4.1	4.2	4.1	4.3	4.1	4.2
Year	4.2	4.4	4.6	4.5	4.4	4.3	4.4

Hence, except in Winter, the diurnal variation is well marked, and is most pronounced in Summer, the wind force being greatest about or a little after noon, and least in the early morning hours.

On the mean of the two years the months with the maximum wind force are March and December with a mean of 4.6, while June, July, August, and November have the lowest wind force, viz. 4.1. On the whole, Summer is the stormiest time, and in Winter the wind force is lowest; but the variation between the seasons is very small.

With regard to gales of force 8 or upwards, the number of cases in which this value was attained at any of the six hours of observation were picked out for the different directions, with the following results,—the number of times force 10 was recorded being given for comparison :—

	N.	N.N.W.	N.W.	W.N.W.	W.	W.S.W.	S.W.	S.S.W.	S.	S.S.E.	S.E.	E.S.E.	E.	E.N.E.	N.E.	N.N.E.	Total Hours.
Force 8 or above .	5	5	13	5	18	13	37	2	8	0	0	2	1	0	3	11	123
Force 10	1	0	3	2	3	2	6	0	2	0	0	0	0	0	0	2	21

Only on one occasion was force 10 exceeded, viz. on 12th July 1903, when at 8 P.M. a northerly gale of force 11 was recorded.

It will be seen that the most frequent gales are recorded from the S.W., while at no hour of observation during the two years was force 8 reached with winds from the S.S.E., S.E., or E.N.E. Taking the values by seasons, we find that 28 per cent. of all gales occurred in Spring, 29 per cent. in Summer, while the values for Autumn and Winter were 22 per cent. and 21 per cent. respectively. The maximum percentage was 14 in November, and the least 3 in April and October.

MISCELLANEOUS PHENOMENA.

Fog.—On the average, fog occurs on 36 days of the year, the total number of cases recorded in the two years being 71. Of these cases Summer and Winter had 21 each, Spring 17, and Autumn 12. An examination of the direction of the wind during the hours that fog was recorded showed that in nearly all cases the direction was either N., N.N.E., or N.E., and that the early morning was the foggiest part of the day.

Thunderstorms.—Thunderstorms were recorded on 30th March and 27th April 1903 and 9th January 1904, while lightning without thunder was seen on 3rd April 1903 and 3rd February 1904.

Lunar Halos were seen on six occasions in 1903 and 8 times in 1904, while Lunar Coronas were observed 11 times in 1903 and 7 times in 1904. A mock moon was recorded on 4th March 1904.

ON THE RELATION OF THE WIND DIRECTION TO PRESSURE, TEMPERATURE, WIND FORCE, AND AMOUNT OF CLOUD.

In order to ascertain the effect of wind direction upon the meteorological elements the observations for the year 1903 have been tabulated according to the direction of the wind prevailing at the time, the values thus treated being those of pressure, temperature, wind force, and amount of cloud. The observations were first tabulated to 16 points, N., N.N.W., N.W., and so on, and the values resolved to the eight principal directions by halving N.N.W.,—for example, between N. and N.W., W.N.W., between W. and N.W.,—the values in this way being resolved to the octagonal directions. On looking at the monthly tables (not printed) it was seen that the almost complete absence of S.E. and E. winds during the year under review prevented values being given in several of the months, and even as regards the seasonal and annual means the number of observations was too small to give a true mean for the winds referred to. In order to obtain a closer approximation to the true mean prevailing with winds from the S.E. and E. the following method was adopted. The data observed with S.S.E., S.E., E.S.E., and E., E.N.E. winds for the years 1903 and 1904 were extracted, and the values resolved to the two directions, viz. S.E. and E., as described above. Then the seasonal means for each of the years were taken and the mean of the two struck,

after which the difference between the year 1903 and the mean of the two years 1903 and 1904 was applied to the data under discussion. For example, the mean pressure during the Spring months, September, October, and November, was 29·557 inches in 1903 and 29·618 inches in 1904, the mean of the two being 29·588. It is seen that pressure during the Spring of 1903 was 0·031 inch *lower* than the mean for the two years, so that in dealing with the means obtained with S.E. and E. winds during the years 1903 and 1904 a correction of minus 0·031 inch was applied to the observed values to make them comparable with the other directions which are based on the year 1903 only. The same method was applied to all the seasonal values of pressure, temperature, wind force, and cloud, as well as to the annual means. In this way a much closer approximation to the true means for S.E. and E. winds has been obtained, especially as these winds were much more frequent in 1904 than in 1903. (See Plate I.)

PRESSURE AND TEMPERATURE.

The following table shows the mean barometric pressure with different winds during the four seasons of the year :—

	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.	Mean.	Range.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
Spring .	29·818	29·814	29·684	29·718	29·862	30·052	29·858	29·860	29·791	0·368
Summer .	·663	·505	·497	·520	·532	29·673	·632	·597	29·557	0·176
Autumn .	·527	·530	·430	·488	·604	·466	·539	·592	29·518	0·174
Winter .	·712	·711	·647	·620	·643	·788	·740	·798	29·680	0·178
Year .	29·681	29·634	29·574	29·586	29·662	29·733	29·696	29·703	29·636	0·159

Hence it will be seen that the highest pressure is recorded with winds from the S.E. and the lowest with winds from the W. Except in winter, when the lowest pressure is recorded with S.W. winds, the W. has the lowest values, while the direction of highest pressure is S.E. in Spring and Summer, S. in Autumn, and N.E. in Winter. Except in Spring, when there is a range of 0·368 inch between the highest and lowest pressure, the seasonal difference is less than half the above amount.

The following table shows the direct effect of the wind on the pressure, or the difference from the mean, the heavy type indicating above the average and the italic below :—

	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
Spring .	·027	·023	<i>·107</i>	<i>·073</i>	·071	·261	·067	·069
Summer .	·106	<i>·052</i>	<i>·060</i>	<i>·037</i>	<i>·025</i>	·116	·075	·040
Autumn .	·009	·012	<i>·088</i>	<i>·030</i>	·086	<i>·052</i>	·021	·074
Winter .	·032	·031	<i>·033</i>	<i>·060</i>	<i>·037</i>	·108	·060	·118
Year .	·045	<i>·002</i>	<i>·062</i>	<i>·050</i>	·026	·097	·060	·067

Hence of all seasons of the year winds from N., E., and N.E. have a pressure above the mean, and those from W. and S.W. below it. Barometric pressure with W. and S.W. winds falls below the mean to a greater extent in Spring than at any other season, while in Summer the excess of pressure with N. winds is more than three times greater than in Winter, which for the wind in question has the next greatest excess.

The mean temperature experienced with different winds is shown in the following table :—

	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.	Mean.	Range.
Spring . .	43·3	42·6	40·9	39·8	39·5	40·9	41·9	42·1	41·8	3·8
Summer . .	49·3	48·6	47·2	45·2	45·3	43·8	45·6	47·4	47·3	5·5
Autumn . .	45·4	43·4	42·1	42·5	39·2	42·8	44·1	45·2	43·4	6·2
Winter . .	40·1	38·5	34·7	34·9	36·0	36·5	36·4	40·4	37·7	5·7
Year . . .	43·9	42·9	40·7	41·0	40·0	41·6	42·9	43·8	42·6	3·9

On the mean of the year the warmest wind is N., with an average temperature of 43°·9, and the coldest S., with a mean of 40°, the range being only 3°·9. At all seasons the conserving influence of the surrounding ocean is shown in the small difference between the coldest and warmest winds. Except in winter the N. is the warmest wind, but the direction from which the lowest temperature is experienced varies, being S. in Spring and Autumn, S.E. in Summer, and W. in Winter.

The divergence from the mean is shown in the following table :—

	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.
Spring . . .	1·5	0·8	0·9	1·9	2·5	0·9	0·1	0·3
Summer . . .	2·0	1·3	0·1	2·1	2·0	3·5	1·8	0·1
Autumn . . .	2·0	0·0	1·3	0·9	4·2	0·6	0·7	1·8
Winter . . .	2·4	0·8	3·0	2·8	1·7	1·2	1·3	2·7
Year	1·3	0·3	1·9	1·6	2·6	1·0	0·3	1·2

Hence it will be seen that the effect of the warmest—viz. the N.—wind is to raise the temperature only 1°·3, while the coldest wind S. depresses it as much as 2°·6, the amount being greatest 4°·2 in Autumn and least 1°·7 in Winter. In Summer, W. and N.E. winds respectively have practically the mean temperature of the season, but in Winter the former is 3° below the average, while the latter is 2°·7 above it. It is probable that the comparative high temperature experienced with W. winds in Summer is due to the heating of the land mass of the Falklands lying in that direction, while in Winter the chilling effects of radiation strongly influence air currents from the W. Strictly oceanic winds, probably at all seasons of the year, have a temperature closely approximating to that of the sea surface over which they have blown before reaching the point of observation.

FORCE OF THE WIND.

The force of the wind is shown on the usual Beaufort scale of 0 to 12 :—

	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.	Mean	Range.
Spring . .	4.0	4.2	4.4	4.6	3.4	2.5	4.0	4.3	4.2	2.1
Summer . .	4.4	4.4	4.9	5.2	4.2	3.8	4.3	4.2	4.5	1.4
Autumn . .	4.7	4.2	4.6	5.0	5.1	4.4	3.8	5.4	4.6	1.3
Winter . .	3.8	3.8	4.2	5.4	3.8	3.4	4.4	4.8	4.1	2.0
Year . .	4.3	4.2	4.5	5.0	4.0	3.6	4.2	4.5	4.3	1.4

Hence the stormiest wind is the S.W., blowing with a mean force of 5.0, while the S.E. wind is the lightest, with a force of 3.6, there being roughly a difference of about 10 miles per hour between these two directions. In Spring, Summer, and Winter the stormiest wind is the S.W. and the calmest S.E., but in Autumn the directions are N.E. and E. respectively. At all seasons except Autumn the force of the S. wind is considerably below that of the S.W., but at this season it is slightly above it.

The departures from the seasonal means are shown in the subjoined table :—

	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.
Spring . .	0.2	0.0	0.2	0.4	0.8	1.7	0.2	0.1
Summer . .	0.1	0.1	0.4	0.7	0.3	0.7	0.2	0.3
Autumn . .	0.1	0.4	0.0	0.4	0.5	0.2	0.8	0.8
Winter . .	0.3	0.3	0.1	1.3	0.3	0.7	0.3	0.7
Year . .	0.0	0.1	0.2	0.7	0.3	0.7	0.1	0.2

N.W. and S.E. winds at all seasons of the year are below the general average wind force for the season, while S.W. winds are above it. N.E. winds, it will be seen, approximate to the normal strength in Spring, are a little below it in Summer, while in Autumn and Winter they are considerably in excess of the general average.

AMOUNT OF CLOUD.

The mean amount of cloud, overcast sky, or fog = to 10 is as follows :—

	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.	Mean.	Range.
Spring . .	6.9	5.9	5.6	7.4	7.4	6.4	7.3	7.9	6.4	2.3
Summer . .	7.7	6.1	5.8	6.9	7.5	8.4	8.4	7.3	6.9	2.6
Autumn . .	7.3	5.8	6.0	7.1	8.3	9.2	9.1	8.1	6.5	3.4
Winter . .	7.7	5.9	5.9	7.4	7.5	8.1	8.7	9.1	6.9	3.2
Year . .	7.4	5.9	5.8	7.2	7.6	7.7	7.9	8.0	6.7	2.2

Hence the cloudiest wind is the N.E. and the clearest the W. At all seasons N.W. and W. winds have a small amount of cloud, while S.E., E., and N.E. winds are accompanied by cloudy skies. This is clearly shown in the following table, showing the departure from the seasonal mean:—

PERCENTAGE EXCESS OR DEFECT OF CLOUD.

	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.
Spring . . .	5	5	8	10	10	0	9	15
Summer . . .	8	8	11	0	6	15	15	4
Autumn . . .	8	7	5	6	18	27	26	15
Winter . . .	8	10	10	5	6	12	18	22
Year . . .	7	8	9	5	9	10	12	13

There being more winds from N.W. and W. than those from all the other directions put together, and these having the least amount of cloud, the above table is strongly influenced thereby. Thus although at no season do winds from the other six octants fall below the general mean, yet both N. and S.W. winds are relatively clear at all seasons, as is the S.E. wind in Spring and the N.E. in Summer.

As showing the effect of the direction of the wind on the meteorological phenomena, it is of interest to compare the Mays and Decembers of 1903 and 1904, the following being the number of days with different winds:—

	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.
May								
1903	7	13	6	2	1	0	0	2
1904	3	6	9	7	4	1	0	1
Difference	-4	-7	+3	+5	+3	+1	0	-1
December								
1903	6	8	6	4	1	1	1	4
1904	1	3	7	8	2	4	4	2
Difference	-5	-5	+1	+4	+1	+3	+3	-2

Hence in both these months in 1904 winds from N.E., N., and N.W. blew on 12 days less than in the corresponding months of 1903, there being an excess of winds from W., S., and E. The effect on some of the climatic elements was very pronounced, as will be seen from the subjoined table:—

	Mean Pressure.	Mean Temperature.	Mean Wind Force 0 - 12.	Mean Cloud 0 - 10.	Per cent. of Sunshine.
May.	Ins.				
1903	29.626	41.2	4.4	6.3	33
1904	29.673	38.3	4.4	8.1	17
Difference	+ .047	- 2.9	0.0	+ 1.8	- 16
December					
1903	29.731	46.8	4.7	7.0	37
1904	29.676	45.3	4.3	8.1	28
Difference	- .055	- 1.5	- 0.4	+ 1.1	- 9

Hence in both months it will be seen that while there was a small difference in pressure and wind force between the 1904 and 1903 values, yet the diminution in temperature, excess of cloud, and reduced amount of sunshine was very pronounced. Thus, as regards temperature, May 1904 was colder than May 1903 by $2^{\circ}9$, while only half the amount of sunshine was recorded. In December 1904 temperature was $1^{\circ}5$ lower than in the same month of the previous year, while sunshine was deficient and cloud amount in excess. It may be remarked that in December 1903 there was no pack in the vicinity of the South Orkneys or in the sea to the north, while in December 1904, not only were the Orkneys ice-bound, but the pack ice was met with 250 miles N.W. of these islands. This extension northwards of the ice pack accompanied the excess of southerly winds in December 1904 mentioned above, and these closely allied factors evidently materially affected the climate of the Falkland Islands, and probably their chilling influence extended to more northern latitudes.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS MADE AT CAPE PEMBROKE, FALKLAND ISLANDS, 1903.
BAROMETER AT 32° AND SEA LEVEL.

1903.	4	8	Noon.	4	8	Mid- night.	Mean.	Highest.	Date.	Lowest.	Date.	Range.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Ins.		Ins.
January	29.530	29.523	29.518	29.505	29.518	29.524	29.519	30.097	Noon 3rd	29.040	Mdt. 28th	1.057
February	29.419	29.436	29.427	29.406	29.419	29.423	29.422	30.081	Noon 8th	28.721	4 a.m. 15th	1.360
March	29.301	29.322	29.316	29.291	29.287	29.295	29.302	29.915	Noon 4th	28.671	4 p.m. 18th	1.244
April	29.633	29.632	29.629	29.615	29.628	29.621	29.626	30.082	Noon 15th	28.677	Mdt. 23rd	1.405
May	29.614	29.622	29.619	29.629	29.641	29.633	29.626	30.401	4 a.m. 14th	28.797	4 a.m. 10th	1.604
June	29.494	29.503	29.502	29.497	29.504	29.502	29.500	30.174	4 p.m. 21st	28.920	4 p.m. 24th	1.254
July	29.785	29.789	29.781	29.786	29.786	29.793	29.787	30.116	8 p.m. 14th	29.425	8 p.m. 12th	0.691
August	29.752	29.760	29.753	29.756	29.754	29.744	29.753	30.334	4 a.m. 5th	29.418	Mdt. 8th	0.916
September	29.730	29.739	29.727	29.729	29.734	29.737	29.733	30.429	4 p.m. 5th	29.401	Mdt. 15th	1.028
October	29.859	29.861	29.850	29.845	29.862	29.865	29.857	30.326	8 p.m. 30th	29.398	Noon 11th	0.928
November	29.786	29.780	29.775	29.775	29.789	29.787	29.782	30.342	4 a.m. 4th	29.427	Noon 29th	0.915
December	29.727	29.727	29.726	29.729	29.737	29.741	29.731	30.334	4 a.m. 14th	29.388	Noon 4th	0.946
Year	29.636	29.641	29.635	29.630	29.638	29.639	29.636	30.429	Sept. 5th	28.671	Mar. 18th	1.758

AIR TEMPERATURE.

1903.	4	8	Noon.	4	8	Mid-night.	Mean.	Highest.	Date.	Lowest.	Date.	Range.
January	44.6	47.6	50.7	50.6	46.9	45.1	47.6	58	Noon 25th	41	4 a.m. 17th	17
February	44.2	47.3	50.4	51.0	47.5	45.4	47.6	63	4 p.m. 1st	36	8 a.m. 21st	27
March	42.2	44.6	49.0	48.4	45.0	43.8	45.5	57	4 p.m. 1st	35	4 a.m. 29th	22
April	41.7	42.9	46.0	45.5	43.4	42.4	43.6	56	4 p.m. 10th	33	4 a.m. 7th	23
May	39.7	40.1	43.1	42.2	41.2	40.6	41.2	49	Noon 1st	30	4 a.m. 14th	19
June	38.9	38.5	39.7	39.0	38.4	38.8	38.9	47	Noon 1st	30	4 p.m. 20th	17
July	36.4	36.7	38.8	37.5	36.6	36.3	37.0	46	Noon 11th	24	Mdt. 31st	22
August	36.1	36.1	39.5	38.5	37.0	36.4	37.3	45	Noon 18th	25	4 a.m. 1st	20
September	37.1	38.6	41.9	40.7	38.4	37.8	39.1	47	Noon 13th	28	4 a.m. 2nd	19
October	38.5	41.4	43.5	43.5	40.9	39.2	41.2	56	Noon 29th	33	Mdt. 10th	23
November	42.8	45.9	48.0	47.1	44.1	42.7	45.1	56	4 p.m. 5th	36	4 a.m. 2nd	20
December	44.1	47.7	49.4	48.6	46.6	44.7	46.8	61	Noon 24th	34	4 a.m. 2nd	27
Year	40.5	42.3	45.0	44.4	42.2	41.1	42.6	63	Feb. 1st	24	July 31st	39

WIND FORCE (0-12).

1903.	4	8	Noon.	4	8	Mid-night.	Mean.
January	4.3	4.2	4.7	4.7	4.6	4.6	4.5
February	4.2	4.4	4.8	4.6	4.3	4.2	4.4
March	4.9	4.7	5.0	5.3	5.2	4.8	5.0
April	4.1	4.2	4.4	4.3	4.4	4.2	4.3
May	4.4	4.3	4.9	4.5	4.5	4.0	4.4
June	4.2	3.8	4.2	4.1	3.9	3.9	4.0
July	4.2	4.1	4.2	4.0	4.6	4.2	4.2
August	4.3	4.2	4.1	3.9	4.1	3.9	4.1
September	4.2	3.9	4.6	4.5	4.3	4.5	4.3
October	3.2	3.6	3.8	4.3	3.8	3.5	3.7
November	4.2	4.8	4.9	4.6	4.3	4.4	4.5
December	4.0	4.8	5.5	4.8	4.7	4.5	4.7
Year	4.2	4.2	4.6	4.5	4.4	4.2	4.3

NUMBER OF TIMES THE WIND BLEW FROM VARIOUS DIRECTIONS.

1903.	N.	NNW.	NW.	WNW.	W.	WSW.	SW.	SSW.	S.	SSE.	SE.	ESE.	E.	ENE.	NE.	NNE.	Calm or Var.
January	22	3	29	5	20	5	18	10	11	1	10	2	1	0	36	13	0
February	24	11	33	18	21	17	25	6	2	0	0	0	0	1	6	4	0
March	19	19	47	33	26	6	12	1	6	0	2	1	3	0	7	4	0
April	37	16	39	20	23	15	10	4	0	0	0	0	0	0	5	10	1
May	25	18	60	22	23	0	10	1	8	1	0	0	0	0	6	11	1
June	23	14	26	19	29	3	11	0	10	7	3	1	3	1	9	21	0
July	40	14	41	11	34	6	11	1	8	3	0	0	0	1	10	6	0
August	29	14	38	18	30	8	19	4	1	0	0	0	0	0	9	16	0
September	33	17	40	14	37	9	15	0	1	0	0	0	0	0	8	6	0
October	20	8	29	10	32	9	15	4	16	3	8	5	0	0	7	20	0
November	28	16	45	9	24	12	18	2	2	1	1	0	4	0	11	7	0
December	20	13	38	7	24	18	15	3	4	0	4	0	7	0	16	17	0
Year	320	163	465	186	323	108	179	36	69	16	28	9	18	3	130	135	2

300 RESULTS OF THE METEOROLOGICAL OBSERVATIONS TAKEN DURING

ABSTRACT OF METEOROLOGICAL OBSERVATIONS MADE AT CAPE PEMBROKE, FALKLAND ISLANDS, 1903. AMOUNT OF CLOUD (0-10) AND SUNSHINE.

1903.	4	8	Noon.	4	8	Mid-night.	Mean.	Days.		Sunshine.			Days of		
								Greater than 8.	Less than 2.	Hours.	Sunless Days.	Per cent. of Possible.	Fog.	Lunar Halos.	Lunar Corona.
January	7.4	7.2	6.9	6.7	7.5	7.0	7.1	7	0	(160.0)	(3)	33	8	1	0
February	6.3	6.4	6.6	7.3	7.0	5.6	6.5	3	0	131.6	1	38	1	0	0
March	7.3	6.2	7.0	6.9	6.3	4.9	6.4	3	0	171.1	1	45	1	1	0
April	6.6	7.2	7.1	7.5	6.8	5.4	6.8	9	0	109.9	7	35	3	1	0
May	5.6	6.6	7.0	6.9	6.1	5.5	6.3	6	0	88.6	4	33	0	0	2
June	6.7	7.2	7.9	7.5	6.2	6.2	7.0	12	0	59.0	8	26	5	1	3
July	6.5	7.3	6.8	7.5	6.3	6.3	6.8	5	0	64.7	8	26	3	2	1
August	6.8	7.0	7.2	7.9	6.7	6.6	7.0	9	0	109.9	8	37	0	0	1
September	6.4	7.2	7.6	7.1	6.1	6.0	6.7	9	0	131.4	5	33	4	0	2
October	6.4	6.5	6.7	6.7	6.4	5.9	6.4	5	0	155.3	3	37	5	0	0
November	6.8	6.4	6.7	6.5	5.9	5.3	6.2	5	0	183.9	3	40	1	0	0
December	7.3	7.3	7.5	7.1	6.4	6.3	7.0	7	1	188.3	1	37	3	0	2
Year	6.7	6.9	7.1	7.1	6.5	5.9	6.7	80	1	1573.7	52	36	34	6	11

ABSTRACT OF METEOROLOGICAL OBSERVATIONS MADE AT CAPE PEMBROKE, FALKLAND ISLANDS, 1904. BAROMETER AT 32° AND SEA LEVEL.

1904.	4	8	Noon.	4	8	Mid-night.	Mean.	Highest.	Date.	Lowest.	Date.	Range.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Ins.		Ins.
January	29.580	29.566	29.552	29.561	29.567	29.575	29.567	29.959	4 a.m. 28th	28.354	4 p.m. 2nd	1.605
February	29.623	29.630	29.609	29.585	29.599	29.614	29.610	30.107	8 a.m. 13th	28.670	8 p.m. 26th	1.437
March	29.493	29.483	29.462	29.454	29.498	29.501	29.482	29.890	Noon 10th	28.914	4 p.m. 30th	0.976
April	29.703	29.716	29.725	29.733	29.728	29.729	29.724	30.212	4 a.m. 11th	29.112	Noon 3rd	1.100
May	29.663	29.671	29.677	29.681	29.683	29.664	29.673	30.286	Noon 28th	28.917	Noon 8th	1.369
June	29.654	29.665	29.655	29.645	29.643	29.640	29.650	30.205	4 p.m. 15th	28.930	4 a.m. 8th	1.275
July	29.641	29.637	29.631	29.628	29.652	29.652	29.640	30.211	4 a.m. 29th	28.640	4 p.m. 21st	1.571
August	29.590	29.605	29.603	29.612	29.618	29.607	29.607	30.214	8 p.m. 30th	28.973	4 p.m. 21st	1.241
September	29.405	29.411	29.409	29.398	29.413	29.408	29.407	30.263	8 p.m. 6th	28.732	4 p.m. 30th	1.531
October	29.592	29.598	29.582	29.580	29.604	29.617	29.596	30.332	8 a.m. 31st	28.919	4 p.m. 20th	1.413
November	29.582	29.572	29.557	29.561	29.574	29.577	29.570	30.200	4 a.m. 1st	28.840	Noon 23rd	1.360
December	29.663	29.678	29.683	29.678	29.681	29.674	29.676	30.083	8 a.m. 12th	29.177	8 a.m. 26th	0.966
Year	29.599	29.603	29.596	29.593	29.606	29.605	29.600	30.332	Oct. 31st	28.354	Jan. 2nd	1.978

ABSTRACT OF METEOROLOGICAL OBSERVATIONS MADE AT CAPE PEMBROKE, FALKLAND ISLANDS. AIR TEMPERATURE.

1904.	4	8	Noon.	4	8	Mid-night.	Mean.	Highest.	Date.	Lowest.	Date.	Range.
January	46.4	50.3	51.4	51.6	49.5	47.6	49.5	61	Noon 10th	40	4 a.m. 15th	21
February	46.9	50.6	53.0	52.6	49.2	47.1	49.9	63	4 p.m. 1st	37	8 p.m. 27th	26
March	45.1	47.8	50.7	50.4	46.9	45.4	47.7	58	Noon 1st	37	8 a.m. 24th	21
April	43.3	44.3	45.9	44.8	43.6	43.2	44.2	54	Noon 9th	34	Mdt. 6th	20
May	37.3	37.7	39.6	39.0	38.4	37.6	38.3	50	4 p.m. 3rd	26	4 a.m. 14th	24
June	38.9	38.9	40.6	39.9	39.3	39.3	39.5	46	Mdt. 2nd	27	4 a.m. 14th	19
July	33.2	33.0	35.3	34.5	34.0	33.1	33.8	43	4 a.m. 4th	24	Mdt. 27th	19
August	36.9	36.9	39.6	39.1	37.3	37.0	37.8	46	4 p.m. 17th	33	4 p.m. 10th	13
September	37.5	39.0	41.3	40.7	39.9	38.1	39.4	51	4 p.m. 16th	33	4 a.m. 23rd	18
October	37.7	40.1	43.0	41.7	39.5	38.2	40.0	54	4 p.m. 6th	31	4 a.m. 31st	23
November	42.0	44.9	47.2	46.2	43.4	42.5	44.4	59	Noon 16th	36	4 a.m. 9th	23
December	43.5	45.7	47.7	46.4	44.8	43.9	45.3	58	Noon 15th	39	Mdt. 11th	19
Year	40.7	42.4	44.6	43.9	42.2	41.1	42.5	63	Feb. 1st	24	July 27th	39

WIND FORCE (0-12).

1904.	4	8	Noon.	4	8	Mid-night.	Means.
January	4.1	4.5	4.5	4.4	4.5	4.8	4.5
February	3.9	4.4	4.6	4.1	4.0	3.9	4.2
March	4.0	4.3	4.8	5.0	4.5	4.0	4.3
April	4.0	4.3	4.2	4.2	4.4	4.1	4.2
May	4.4	4.8	4.9	4.4	4.0	4.2	4.4
June	4.3	3.8	4.0	4.1	4.1	4.1	4.1
July	4.1	3.9	4.0	4.3	4.4	4.1	4.1
August	4.7	4.5	4.6	4.0	4.5	4.5	4.5
September	4.5	4.3	4.7	4.3	4.7	4.7	4.5
October	4.1	4.5	4.5	5.0	4.5	4.5	4.5
November	4.4	4.8	5.2	4.9	4.7	4.4	4.7
December	4.2	4.6	4.4	4.3	3.8	4.5	4.3
Year	4.2	4.4	4.5	4.4	4.3	4.3	4.4

NUMBER OF TIMES THE WIND BLEW FROM VARIOUS DIRECTIONS.

1904.	N.	NNW.	NW.	WNW.	W.	WSW.	SW.	SSW.	S.	SSE.	SE.	ESE.	E.	ENE.	NE.	NNE.	Calms.
January	21	15	25	11	34	23	29	0	2	0	1	0	0	1	5	17	2
February	15	7	41	8	23	12	10	5	8	2	1	6	22	0	9	3	2
March	33	18	39	20	42	7	3	0	1	0	0	0	1	0	3	18	1
April	17	3	14	14	25	20	20	3	10	0	7	6	3	1	21	16	0
May	14	4	29	8	46	9	29	15	13	1	6	4	0	0	3	5	0
June	37	23	29	5	23	1	4	4	14	3	2	0	1	0	14	20	0
July	9	8	34	37	25	6	24	4	8	2	4	2	6	0	11	4	2
August	22	16	24	10	46	6	12	4	8	3	2	2	10	2	10	8	1
September	16	9	16	9	42	17	12	1	2	0	0	1	6	6	24	16	3
October	21	13	36	17	27	10	23	6	6	1	0	0	2	1	17	6	0
November	28	13	25	9	16	7	16	2	1	0	2	0	3	5	26	27	0
December	5	2	10	6	25	30	31	5	10	3	11	14	16	3	10	4	1
Year	238	131	322	154	374	148	213	49	83	15	36	35	70	19	153	144	12

AMOUNT OF CLOUD (0-10) AND SUNSHINE.

1904.	4	8	Noon.	4	8	Mid-night.	Mean.	Days.		Sunshine.			Days of		
								Greater than 8.	Less than 2.	Hours.	Sunless Days.	Per cent. of Possible.	Fog.	Lunar Halos.	Lunar Coronæ.
January	7.2	7.4	7.9	8.0	7.3	6.8	7.4	11	0	160.2	0	33	6	0	1
February	6.6	6.5	7.3	7.3	6.5	5.9	6.7	6	0	164.6	3	40	2	0	1
March	6.0	7.9	7.4	7.2	6.4	6.1	6.8	6	0	134.4	2	35	1	2	1
April	6.8	7.6	8.0	7.9	7.4	8.0	7.6	14	1	87.8	5	28	6	0	0
May	7.8	8.3	8.3	8.5	8.0	7.6	8.1	17	0	45.0	11	17	1	1	0
June	7.3	8.2	8.1	8.9	8.2	7.9	8.1	17	0	49.8	13	22	7	0	3
July	6.3	7.3	7.3	7.6	6.3	6.1	6.8	6	0	64.8	11	26	1	2	0
August	7.3	7.5	7.5	7.7	7.2	7.2	7.4	12	0	97.5	7	33	5	0	0
September	8.2	8.3	8.2	7.9	7.7	8.0	8.0	13	0	98.2	5	29	5	0	0
October	6.7	7.5	7.3	7.4	6.3	5.9	6.8	4	0	143.5	1	34	0	3	1
November	7.4	7.2	7.2	7.0	6.7	6.5	7.0	10	0	188.8	2	41	2	0	0
December	8.1	8.1	7.6	8.0	8.4	8.2	8.1	19	0	139.9	2	28	1	0	0
Year	7.1	7.6	7.7	7.8	7.2	7.0	7.4	135	1	1374.5	62	32	37	8	7

SEA TEMPERATURE.

The following table shows the surface sea temperature over the South Atlantic and Weddell Sea area :—

SHOWING THE SURFACE SEA TEMPERATURE OF THE SOUTH ATLANTIC AND WEDDELL SEA.

Note.—The means are in most cases the average of readings made every four hours.

Date.	Lat. S.	Long. W.	Sea Temp.	Date.	Lat. S.	Long. W.	Sea Temp.	Date.	Lat. S.	Long. W.	Sea Temp.
1902.				1903.				1904.			
Dec. 27	32 10	47 30	74.8	Mar. 8	67 22	37 36	28.9	Feb. 28	66 21	28 30	29.8
28	33 50	48 44	72.7	9	67 10	39 00	29.1	29	68 08	27 10	29.6
29	35 28	50 34	70.2	10	66 40	40 35	29.3	Mar. 1	68 43	24 15	30.1
30	35 23	49 53	67.9	11	66 22	42 20	29.0	2	71 04	23 10	30.7
31	36 39	52 10	69.4	12	65 29	44 06	28.9	3	72 18	17 59	30.7
1903.				14	64 30	43 45	29.8	4	72 22	18 13	30.4
Jan. 1	39 01	53 40	66.0	15	64 12	42 15	28.9	5	72 31	19 00	29.2
2	41 38	54 40	57.9	17	63 08	42 30	29.6	6	73 20	21 28	28.9
3	45 29	56 03	55.0	19	61 22	42 05	29.0	7	74 01	22 00	28.9
4	47 37	57 25	49.8	20	61 05	43 20	29.4	14	73 11	23 53	29.0
5	49 55	59 44	48.1	SOUTH ORKNEYS TO BUENOS AIRES.				15	71 50	23 40	29.2
FIRST ANTARCTIC CRUISE.				Nov. 28				16	71 28	22 32	29.0
Jan. 27	52 55	55 00	44.4	29	58 28	51 56	34.2	17	71 22	18 19	29.6
28	54 35	51 50	42.2	30	57 10	55 35	33.8	18	71 18	16 34	29.9
30	56 28	47 52	35.5	Dec. 1				19	71 30	17 15	29.8
31	58 14	45 15	35.5	2	54 55	57 28	42.0	20	71 17	18 50	30.4
Feb.				2	52 11	57 55	44.9	21	69 33	15 19	31.0
1	59 32	43 10	33.5	12	44 08	57 30	49.2	22	68 32	10 52	31.8
2	60 28	43 40	30.4	13	42 30	59 18	50.0	23	68 32	12 49	31.1
3	60 23	44 00	30.3	14	40 32	58 33	54.8	26	67 36	12 05	30.9
4	60 37	44 00	30.0	15	38 24	57 42	61.8	27	66 57	11 13	30.8
5	61 06	43 40	30.3	16	Off C. Corrientes		62.0	28	65 58	11 24	31.0
6	60 10	42 35	31.6	18	"		63.0	29	63 54	10 42	31.2
7	60 03	39 44	30.3	19	"		61.5	30	61 25	12 47	31.3
8	59 44	36 40	30.7	20	"		67.2	31	60 37	12 16	31.2
9	59 42	34 13	29.8	BUENOS AIRES TO FALKLAND ISLANDS.				April 2	58 40	12 23	33.0
10	60 05	32 10	29.5	1904.				3	56 55	10 00	32.9
11	60 03	32 31	29.7	Jan. 23	36 57	55 45	73.0	8	52 33	9 47	35.0
12	59 49	31 32	29.6	24	39 24	55 02	58.2	9	51 07	9 31	35.3
13	59 43	30 44	30.0	25	40 59	55 04	61.6	10	49 25	9 21	39.0
14	59 33	27 37	30.2	27	43 33	55 07	60.0	11	48 53	9 25	39.4
15	61 37	26 10	30.6	28	45 31	55 21	56.1	12	48 00	9 50	40.0
16	62 52	25 00	30.8	29	47 47	56 08	54.2	13	48 06	10 05	40.8
17	64 18	23 09	31.5	30	50 03	57 58	50.2	14	46 35	10 10	42.9
18	66 05	23 46	30.9	SECOND ANTARCTIC CRUISE.				15	45 54	10 04	44.2
19	68 33	24 31	29.6	Feb. 10	53 22	56 05	45.9	16	45 25	10 19	44.2
20	69 39	22 58	29.0	11	55 47	54 19	40.8	17	44 30	9 43	47.8
21	69 46	19 10	29.3	12	57 47	51 40	36.5	18	43 21	8 30	52.0
22	70 21	17 00	29.0	13	59 56	49 30	36.0	19	42 57	8 13	50.8
23	69 57	16 53	29.0	23	61 28	41 55	33.2	20	41 30	9 55	55.0
24	69 52	17 22	29.0	24	62 49	38 12	31.7	22	40 20	9 56	55.2
26	69 36	20 20	29.1	25	64 29	35 29	31.0	24	39 58	8 26	55.2
27	69 32	24 00	29.0	26	65 59	33 06	30.5	25	40 22	5 45	53.0
28	69 22	26 36	29.1	27	66 26	31 25	29.8	26	41 15	2 38	51.9
Mar.				1904.				27	40 33	0 07E	51.4
1	69 03	28 02	29.0	Jan. 23	36 57	55 45	73.0	28	40 08	1 50	52.4
2	68 40	30 18	28.9	24	39 24	55 02	58.2	29	39 48	2 33	53.8
3	68 35	31 56	29.0	25	40 59	55 04	61.6	30	39 27	5 50	55.5
4	68 22	32 35	29.2	27	43 33	55 07	60.0	May 1	39 25	10 25	55.5
5	68 11	34 17	29.0	28	45 31	55 21	56.1	2	38 06	14 32	64.9
6	67 39	36 10	29.0	29	47 47	56 08	54.2	3	35 37	15 03	64.7
7	67 33	36 35	29.5	30	50 03	57 58	50.2	4	34 58	17 00E	63.0

The noon positions of the "Scotia" are given, although in most cases the sea temperature is the average of observations made every four hours. With regard to the temperature of the sea south of 60° S., it will be seen that the recorded temperatures range from 31.8 to 28.9, with the single exception of a reading of 33.3 recorded in latitude 61° 28' S.

longitude $41^{\circ} 55' W.$ It is of interest to note the rapid fall in surface sea temperatures which takes place between $54^{\circ} 30'$ and 58° S. latitude between the meridians of $57^{\circ} 30'$ and $45^{\circ} W.$, and between 48° and $52^{\circ} 30'$ S. latitude on the 10th meridian west of Greenwich shown during the voyage of the "Scotia." In this connection I have included a number of extra observations made by Dr BRUCE during his voyage to the Antarctic in 1892, as well as observations taken on the "Belgica" and "Valdivia," and some observations made by myself on the Argentine gunboat "Uruguay" in 1905.

It will be seen that there is a rapid fall in the surface sea temperatures which takes place in lower latitudes the further we proceed east up to at least 10° of east longitude. Still further to the east, as shown by the "Challenger" observations, the polar water is met with more to the south.

SURFACE SEA TEMPERATURE.

"BELGICA."

BRUCE ANTARCTIC EXPEDITION.

	Lat. S.	Long. W.	Surface Sea Temp.		Lat. S.	Long. W.	Sea Temp.
1898.				1892.			
Jan. 16 . .	$56^{\circ} 49'$	$64^{\circ} 30'$	$46^{\circ} 0$	Dec. 11 . .	$51^{\circ} 49'$	$57^{\circ} 35'$	$40^{\circ} 7$
18 . .	$59^{\circ} 58$	$63^{\circ} 12$	$37^{\circ} 6$	12 . .	$53^{\circ} 38$	$55^{\circ} 17$	$41^{\circ} 1$
19 . .	$61^{\circ} 05$	$63^{\circ} 04$	$37^{\circ} 8$	13 . .	$54^{\circ} 19$	$53^{\circ} 47$	$41^{\circ} 8$
20 . .	$62^{\circ} 02$	$61^{\circ} 58$	$34^{\circ} 7$	14 . .	$55^{\circ} 56$	$53^{\circ} 57$	$38^{\circ} 5$
21 . .	$62^{\circ} 37$	$61^{\circ} 53$	$34^{\circ} 9$	15 . .	$57^{\circ} 22$	$50^{\circ} 38$	$36^{\circ} 1$
22 . .	$63^{\circ} 05$	$61^{\circ} 48$	$34^{\circ} 1$	16 . .	$59^{\circ} 24$	$51^{\circ} 01$	$34^{\circ} 2$
23 . .	$63^{\circ} 40$	$61^{\circ} 47$	$33^{\circ} 3$	17 . .	$61^{\circ} 06$	$50^{\circ} 03$	$31^{\circ} 8$
24 . .	$64^{\circ} 05$	$61^{\circ} 24$	$35^{\circ} 2$	18 . .	$61^{\circ} 44$	$52^{\circ} 18$	$31^{\circ} 4$
"URUGUAY."				"VALDIVIA."			
	Lat. S.	Long. W.	Sea Temp.		Lat. S.	Long. E.	Sea Temp.
1905.				1898.			
Jan. 10 . .	$64^{\circ} 57'$	$63^{\circ} 22'$	$32^{\circ} 2$	Nov. 18 . .	$42^{\circ} 19'$	$14^{\circ} 2'$	$47^{\circ} 3$
11 . .	$63^{\circ} 22$	$60^{\circ} 55$	$34^{\circ} 0$	19 . .	$44^{\circ} 00$	$13^{\circ} 3$	$45^{\circ} 0$
12 . .	$61^{\circ} 36$	$63^{\circ} 04$	$35^{\circ} 6$	20 . .	$46^{\circ} 41$	$11^{\circ} 10$	$42^{\circ} 8$
13 . .	$59^{\circ} 24$	$64^{\circ} 15$	$36^{\circ} 9$	21 . .	$47^{\circ} 22$	$10^{\circ} 03$	$39^{\circ} 6$
14 . .	$56^{\circ} 54$	$65^{\circ} 43$	$44^{\circ} 1$	22 . .	$49^{\circ} 12$	$8^{\circ} 37$	$37^{\circ} 8$
15 . .	$54^{\circ} 53$	$67^{\circ} 19$	$48^{\circ} 8$	23 . .	$51^{\circ} 34$	$7^{\circ} 19$	$34^{\circ} 7$
				24 . .	$53^{\circ} 57$	$6^{\circ} 02$	$30^{\circ} 6$

NOTE ON THE METEOROLOGY OF THE WEDDELL SEA.

I HAD the intention of concluding this report with a paper on the general meteorology of the Weddell Sea and contiguous areas from the meridian to 100° W., but found that to do so would unduly delay the publication of this memoir. It may not be out of place, however, to present a few generalisations deduced from an examination of the existing material, which includes reports of the meteorological results of the Belgian, French and Swedish expeditions, as well as data obtained from the summer expeditions of Ross and others, including the German expedition to South Georgia in the year 1882–1883.

The most important factor at work in the area under consideration is the Antarctic drift, which carries ice and numerous icebergs into the South Atlantic to low latitudes. With regard to the limits of ice in winter we know little, except that owing to the freezing up of the Antarctic Ocean a continental climate prevails at all places south of 60° S. on the meridian of 45° W., while on the meridian of Greenwich the continental area probably extends as far as 55° S. The region in proximity to the unfrozen sea is the theatre of cyclonic activity, and great variations of temperature and weather prevail, according as the depressions pass to the north or south of the station. Here is an area of much cloud, strong winds, and considerable precipitation. We need merely mention in this connection the remarkable contrast between the winters of 1903 and 1904 at the South Orkneys. In 1903 there was open sea in close proximity to these islands, and the resulting weather was tempestuous, relatively mild, cloudy and variable to a degree; but in 1904 the pack extended some 200 miles to the north, and the weather was quite cold and in general clear, with a high barometer.

Looking at the annual means of the climatic elements given in the reports of the various expeditions, and making the barometric observations strictly comparable by applying the correction for standard gravity at latitude 45° , it was found that the isobars for the year given by BUCHAN in his "*Challenger*" *Report* were in close agreement with the observed facts for the region he discussed, which extends to 60° S. From the observations made on the "*Belgica*" between the latitudes of $69^{\circ} 50'$ and $71^{\circ} 30'$ S., and longitudes from 87° to 95° W., and those made by CHARCOT in latitude 65° S. longitude 64° W., there is reason to believe that pressure is higher to the west of Graham's Land south of 65° S. than in the same parallels to the east of it, which seems to indicate that Graham's Land, Alexander Land, and undiscovered land suggested by the shallow water in the vicinity of the "*Belgica's*" drift, are part of the Antarctic

continent, and that the Antarctic anti-cyclone is not far distant. The temperature observations show that a cold area lies off the east side of Graham's Land, for at Snow Hill, latitude $64^{\circ} 22' S.$ longitude $57^{\circ} 00' W.$, the mean annual temperature from two years' observations is only $10^{\circ} \cdot 7$; while at Port Charcot, latitude $65^{\circ} S.$ longitude $64^{\circ} W.$, it is $14^{\circ} \cdot 5$; while over the region traversed by the "Belgica" approximately in latitude $70^{\circ} 30' S.$ longitude $90^{\circ} W.$, the mean was even higher, being $14^{\circ} \cdot 7$. At the South Orkneys in $61^{\circ} S.$ and $44^{\circ} W.$, the mean is about 22° , while at South Georgia, in latitude $54^{\circ} 31' S.$ longitude $36^{\circ} 05' W.$, it is 35° , so that the isotherms must be very crowded in this region. Indeed, this applies to the whole area lying between latitudes 55° to $65^{\circ} S.$, and longitude 90° and $20^{\circ} W.$ The isotherms over this area may be said to lie in an approximate E.S.E. and W.N.W. direction, bending considerably to the south between the latitudes of 54° and $58^{\circ} S.$, and the meridians of 45° and $60^{\circ} W.$, where the sea temperature falls off at a rapid rate. Indeed, the further east we proceed the further north does the Antarctic current extend, until on the meridian of $10^{\circ} W.$ the polar water embraces an area at least as far as $55^{\circ} S.$, causing the isotherms to take a more northerly trend.

In Summer the isotherms open out very much. At this season we have a large area from 70° to $60^{\circ} S.$ in the Weddell Sea, in which the mean temperature only ranges from 29° to 32° . In high latitudes the clearer skies and a sun that sets for but a brief period in these three months, result in a temperature similar to what prevails in lower latitudes, where there is more evaporation and where the large amounts of cloud and fog and drifting ice maintain a temperature almost as low as that prevailing in clearer regions 10° to the south. The regional distribution in the amount of cloud depends very much on the presence of the sea, for a cloudy zone does extend to a high latitude where there is ocean, whereas a relatively small amount of cloud may prevail in much lower latitudes over a land surface. The annual mean amount of cloud from latitudes 55° to 65° is about $7 \cdot 5$, rising to over $8 \cdot 0$ at the South Orkneys and over that portion of the region where sea and ice meet. The winters there are much clearer than the summers owing to the continental conditions due to the freezing up of the sea to the south.

I have in the preceding reports made some reference to atmospheric circulation in the Weddell Sea area, pointing out that as suggested by NEUMAYER as far back as 1872 "the brave west" or rather north-west winds prevailed to at least $62^{\circ} S.$; while the east wind system is met with in higher latitudes after a zone of variables is passed, whose position is determined by the proximity of the Antarctic continent. Thus, at the winter station of the "Gauss," in latitude $66^{\circ} 02' S.$ longitude $89^{\circ} 38' E.$, 73 per cent. of all the winds were from the east, while on the summer voyage of the "Valdivia" the west wind system was left behind in as low a latitude as $56^{\circ} S.$ in $20^{\circ} E.$, and east winds prevailed to $65^{\circ} S.$ over that portion of the voyage from 20° to $60^{\circ} E.$ On the return voyage the west winds were again met with in latitude $55^{\circ} S.$ During the summer cruises of the "Scotia" east winds blew with increased frequency and force to the south

of the circle, so there can be little doubt that the Antarctic anti-cyclone extends more to the north as we proceed east, but is subject to seasonal oscillations. This is as SUPAN has supposed.

The wind circulation in the vicinity of Graham's Land is of interest, as the west wind system disappears in comparatively low latitudes, showing that this region south of 64° S. is probably under the influence of the south polar anti-cyclone.

The following table shows the mean annual percentage frequency of the winds at several places (see Plate IV.):—

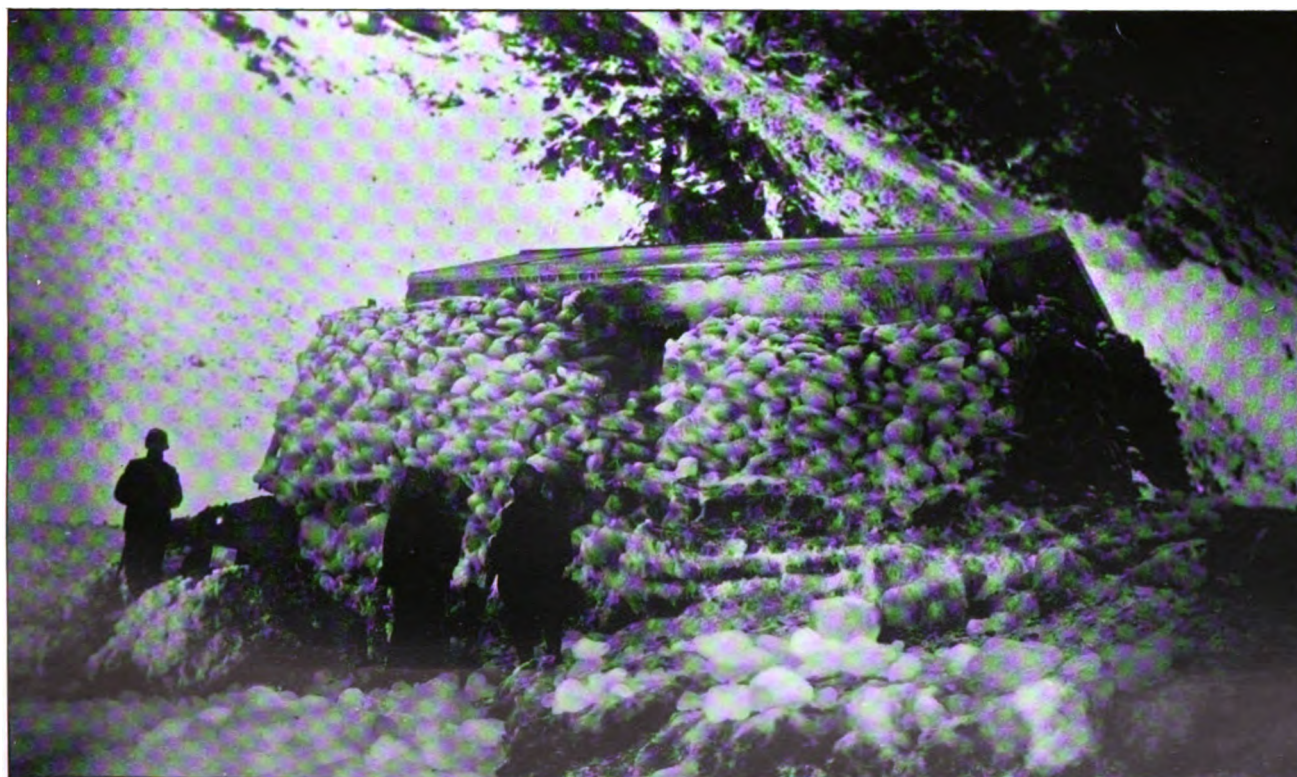
Station.	S. Lat.	N.	N.W.	W.	S.W.	S.	S.E.	E.	N.E.	Calm or Var.
Belgica . .	70° 30'	8	10	15	10	7	11	15	13	11
Port Charcot .	65 03	7	2	1	12	32	4	4	24	14
Snow Hill .	64 22	3	1	6	38	15	2	5	12	18
South Orkneys .	60 44	11	36	11	13	9	9	2	3	6
South Georgia .	54 31	13	16	31	17	5	6	6	6	0
Staten Island .	54 45	11	25	15	16	15	7	1	4	6
Cape Pembroke .	51 41	19	25	23	13	5	2	3	10	0

It will be seen that in the region of the "Belgica's" drift there was no very pronounced maximum of wind frequency from any particular quarter. It is different, however, at Port Charcot and Snow Hill, where, during half the time, the wind was blowing from S. and S.W., with a secondary maximum from the N.E. It will also be noted how the percentage of calms in the austral regions are very small. The wind direction is usually steep and calm winds are feeble, and the skies clear; the north is warm, causing the temperature to rise. The north-east winds point to the station in about 64° of pressure to the south. The sea on the east side of the cyclone, as it is seldom that an anti-cyclone is a widespread phenomenon.

Meteorological Observations of Scottish National Antarctic Expedition.



Omond House, the Cairn, and Copeland Observatory, on The Beach, towards the end of the great South-easterly Gale on April 1904, showing the heavy sea breaking on the shore.



Appearance of Omond House after the great South-easterly Gale and heavy sea on April 1904.

PART II.—MAGNETISM.

Magnetic Observations of Scottish National Antarctic Expedition.



View of Copeland Observatory, Central Cairn, and Omond House, Scotia Bay

MAGNETIC OBSERVATIONS

MADE DURING THE

VOYAGE OF THE SCOTIA, 1902-1904.

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INTRODUCTORY REMARKS.

AN account of the site where the magnetic observations were taken, and various historical details, will be found in the following notes by the observer, Mr. R. C. MOSSMAN, F.R.S.E.

Accompanying the note is a Map of Laurie Island, showing the position of the magnetic hut (Copeland Observatory), also two Plates, of which No. 1 shows the position of the hut in relation to the central cairn and house; No. 2, fig. 1, showing the taking of preliminary observations on the site of the future hut, and, fig. 2, plan showing the positions of the magnetic instruments inside the hut when in use.

The instruments were compared with the standard instruments at Kew before the expedition set sail, and gave satisfactory results.

C. C.

NOTES ON THE MAGNETIC WORK OF THE EXPEDITION.

BY

R. C. MOSSMAN, F.R.S.E.

The Scottish National Antarctic Expedition was equipped with the primary object of engaging in Hydrographical, Biological and Meteorological investigation in the Antarctic area known as the Weddell Sea. The expedition was not fitted out to prosecute magnetic work, but oceanographical research on the lines of the "Challenger," "Valdivia" and other deep-sea expeditions, which work was to be carried on in high southern latitudes within the limits of floating ice. The ship was in no way suited for the taking of

magnetic observations at sea, there being no specially constructed non-magnetic area, as in the case of the "Gauss" and the "Discovery." Besides this, the heavy trawling and other gear made it almost impossible that this should be the case. Further, it was foreseen at the outset that even if it had been possible to have a non-magnetic area, to carry on deep-sea work and magnetism was incompatible. Our magnetic equipment was accordingly restricted to a portable Magnetometer of the Kew pattern, made by the Cambridge Scientific Instrument Company, and a Barrow Dip Circle No. 24, kindly lent by the National Physical Laboratory. This circle was fitted with Lloyd needles for the taking of the Total Force, but at a very early stage the axle of the Statical needle was injured, putting a stop to further observations. No Variometers or systems of self-recording instruments were taken, as it was thought very unlikely that suitable winter quarters would be found in the far south. In July, 1902, (not having had any previous training in magnetic observations) I attended the usual three weeks' course of instruction at Kew Observatory, and in September, through the kindness of the late Professor COPELAND, Astronomer Royal for Scotland, engaged in a few days' practice at the Royal Observatory, Edinburgh.

At Port Stanley, Falkland Islands, enough wood and copper nails were taken for the construction of a small hut, in the event of a wintering station being established. The "Scotia" left Port Stanley on January 26, 1903, and after a cruise of 5364 miles, of which 4400 were in entirely unexplored seas, anchored in Scotia Bay, Laurie Island, South Orkneys, on March 25.

Immediately after our arrival a site was picked out for a house, meteorological station and the magnetic hut. The position selected was on a narrow beach, about 300 yards across, that here divides the north from the south side of the island, the distance from the ship being about 500 yards. On the 30th a temporary tent was rigged up for the taking of some preliminary magnetic observations, and on this site the hut was erected, and was named Copeland Observatory. The dimensions of the hut were 7 feet long and 5 feet broad, while the height of the roof varied from 6 feet 6 inches to 7 feet. It was entirely covered with canvas and painted, and was supported for half its height by a wall composed of stones without mortar. The door was situated on the north side, and there were two windows, one towards the east, the other, for viewing the distant mark, facing south. These windows were protected by sliding shutters on the outside.

The "distant mark," to which the declination observations were referred, was situated 300 yards south of the hut, and was a portion of the rocky face at the base of "Church Hill." It was painted red, with a white bull's-eye, but owing to the frequency with which it became snowed up, and the labour involved in digging it out, a stout post, about 8 feet high, was firmly fixed in position and used during the greater part of the winter. In order to guard against the possibility of this post shifting, an occasional check observation was taken on a fine day, outside the hut, the equivalent of a mark being obtained by observing a sun transit.

There was no concrete pillar for the instruments, which were placed on a brass triangle supported by a wooden tripod. Owing to the small size of the hut, it was necessary to change the position of the tripod so as to be able to make the various observations. Thus there was one position for the dip, another for the deflection series, and a third for the vibration and declination. The legs of the tripod, in the case of the dip observations, fitted into wooden V's screwed into the floor of the hut. In the other observations two of the three legs were kept in position by V's, while the place for the third, which rested against the side of the hut, was indicated by an arrow marked immediately in front of it (see Plate 2, fig. 2). In the declination observations the same leg of the tripod always pointed to the south. In the dip series the bar magnets were placed on the snow about 30 feet north of the hut. As far as possible all knives, keys, and other articles liable to invalidate the observations were removed from the hut. The chronometer, by HUGHES, was always kept in the hut, and its rate, which was remarkably steady, was checked as often as possible by the method of "equal altitudes." The structure was heated by a small copper lamp, which was, however, not very effective, the temperature in winter rarely rising to zero Centigrade. In the taking of the observations the lamp was usually lit from one to two hours before the series were commenced, and the magnets, dip needles and chronometer freely exposed, so that they might have time to get into thermic equilibrium with their surroundings before beginning the observations. During the first month or two little was done, the observations being prosecuted under many difficulties. A good deal of trouble was

occasioned by the absence of a slow-motion screw in the vibration magnet, so that it was a troublesome matter to set the axis horizontal. In the preliminary adjustments the screws for clamping the magnet in its stirrup got overwound, and for some time the magnet had to be balanced in its stirrup at practically every observation, while a further source of annoyance was due to the frequent breaking of the torsion thread. Another disturbing effect was due to the unfavourable climatic conditions. On several occasions, for example after a silver thaw, *i.e.*, rain falling with a temperature below the freezing-point and congealing as it fell, it would take over an hour to get into the hut, which would be plastered on the weather side with solid ice over an inch thick. This had to be carefully cut away from the door and windows, so as to avoid injuring the woodwork. Inside the hut further difficulties had to be overcome. The instrument would often be found encrusted with ice spicules requiring thawing out. This effected, and everything in working order, the rattling of torrents of drift on the roof and sides was at times so great that the beats of the chronometer about two feet off could not be heard, thus making the time of vibration unsatisfactory, while in the deflection series the mirrors would become covered with ice resulting from the freezing of the moisture generated by the observer's breath. Frequently from one of these causes the first or second portion of the observations could not be completed.

During the winter Dr. W. S. BRUCE, leader of the expedition, gave me every opportunity for the prosecution of magnetic work, and that more was not effected was largely due to the causes already referred to. In September, October and November sledge parties were in the field, and a good deal of my time was occupied in the routine associated with the taking of the hourly meteorological observations, which precluded any systematic series of magnetic measurements. On November 27, immediately after the break-up of the ice, the "Scotia" left for Buenos Aires to refit, leaving a party of six to continue the work during the summer. The summer party were accommodated in a stone house, situated 140 yards west of the observatory, so that it was now possible, owing to its proximity and to the better weather, to make a more extended series of observations, which include hourly readings of declination on 20 days. In taking this set, I was ably assisted by Mr. WILLIAM MARTIN, General Scientific Assistant. On the return of the "Scotia," on February 14, the station was taken over by the Argentine Meteorological Office, and the meteorological and magnetic observations were carried on under my direction till the end of 1904, the work being still continued under the auspices of the Argentine Government.

The South Orkneys are a small group of islands situated between 60° and 61° S., and 44° and 47° W., about 700 miles S.E. by E. of the Falkland Islands, and about 250 miles E. of the nearest islands of the South Shetlands. The group consists of two large islands—Coronation and Laurie Island—and numerous smaller ones. The two large islands are separated from one another by two small islands and Washington and Leethwaite Straits. Laurie Island, although its greatest length is in an E.N.E. and W.S.W. direction, consists of numerous peninsulas and steep and lofty mountain ranges running in a general N.W. and S.E. direction. The length of this island is about 12 miles, its maximum breadth 6 miles, and its area fully 30 square miles. Coronation Island is 35 miles long, but as no detailed survey has been made, particulars regarding its area cannot be given. The central cairn is approximately in Latitude 60° 43' 42" S. and Longitude 44° 38' 33" W., this cairn being 79 feet west of Copeland Observatory.

The islands, it may be said, are largely composed of fine-grained greywacke of a bluish or greenish colour. Varieties of the greywacke are found, such as conglomerates, slate, and patches showing gneissic banding and folding. In one situation regular beds of shale were found alternating with layers of greywacke. The islands are thus composed of sedimentary rocks, and nothing was found to produce local disturbances in the magnetic elements through the presence of iron or other minerals.* It may be remarked that the islands rise very suddenly out of deep water of about 2000 fathoms, and that the bathymetric gradient is steeper on the north than on the south side of the islands. (See W. S. BRUCE, "Bathymetrical Survey of South Atlantic Ocean and Weddell Sea," 'Scot. Geog. Mag.,' August, 1905.)

* See "On the Graptolite-Bearing Rocks of the South Orkneys," by J. H. HARVEY PIRIE, B.Sc., 'Proc. Roy. Soc., Edin.,' vol. xxv., pp. 463-470.

DISCUSSION OF THE MAGNETIC OBSERVATIONS.

BY

DR. C. CHREE, F.R.S.

§ 1. The observations taken by Mr. MOSSMAN in Laurie Island, South Orkneys, were reduced by the staff of the Observatory Department of the National Physical Laboratory. They consisted of absolute observations of declination, inclination, and horizontal force, made between May, 1903, and February, 1904, and of hourly readings of declination during ten days in December, 1903, and ten days in January, 1904.

§ 2. *Declination.*—The observations were taken with a Unifilar Magnetometer No. 2, by the Cambridge Instrument Company, the absolute observations being always made with the scale both erect and inverted. The readings were referred to a distant mark, described in Mr. MOSSMAN'S notes, whose azimuth relative to the geographical meridian was determined by a number of sun transit observations. The sun observations were reduced at the Argentine Magnetic Observatory at Pilar, the mean value obtained for the azimuth of the mark from ten observations being $9^{\circ} 15'$ west of north. The conditions under which the sun observations were taken were not very favourable, and individual determinations of the azimuth of the mark differed by a few minutes of arc; the mean result, however, should not possess a large probable error.

Table I. gives the date and the mean (local) time of the individual observations, as well as the resulting values of the declination. The observations on June 15, and July 2, 3 and 12, appear abnormal, and have been omitted in forming the monthly means. No attempt has been made to allow for the diurnal variation. The observations were made, with few exceptions, between 11 a.m. and 7 p.m., and, as we shall see later, easterly declination was above the mean during this portion of the day, at least near midsummer. Thus the correction to the mean value for the 24 hours would almost certainly cause a reduction of the figures in Table I. in the great majority of cases. The diurnal range, however, as we shall see later, is not large even at midsummer, when it is usually about its maximum, and the corrections that remain to be applied to the monthly means in Table I. would probably, in most cases, not exceed 2 or 3 minutes of arc. The absolute observations themselves would suffice to show that the range of declination is not large, for, excluding the four observations already mentioned as doubtful, we have for the largest and smallest of 40 observed declinations $5^{\circ} 35' \cdot 6$ and $5^{\circ} 24' \cdot 4$ respectively, the difference being only $11' \cdot 2$.

If we assign to May 31 the mean $5^{\circ} 33' \cdot 6$ of the monthly means for May and June, and to January 31 the mean $5^{\circ} 29' \cdot 0$ of the monthly means for January and February, we obtain a decrease of $4' \cdot 6$ in eight months, *i.e.*, of $6' \cdot 9$ in the year. There may, however, be a considerable annual period (*i.e.*, a regular change whose period is 1 year), and there are other sources of uncertainty, so that much weight cannot be assigned to this estimate of the rate of secular change.

§ 3. *Inclination.*—The observations of inclination were made with the Barrow Circle No. 24, having two needles, Nos. 1 and 2. On most occasions observations were made with both needles. The results from the two needles did not differ much, but on the average the inclination obtained with No. 2 exceeded that obtained with No. 1 by $0' \cdot 53$. On the few occasions when observations were made with No. 1 only, an imaginary mean for the two needles has been obtained by adding $0' \cdot 3$ to the result obtained.

Table II. gives full particulars of the individual observations. The monthly means and the mean for the whole series are based on the mean results for the two needles. The mean values obtained for July and August are lower than those for either the earlier or the later months, and no deduction seems possible as to either the secular change or the diurnal variation.

The difference $9' \cdot 7$ between the extreme values $54^{\circ} 35' \cdot 3$ and $54^{\circ} 25' \cdot 6$ is, relatively considered, very considerably larger than the corresponding difference in the case of the declination.

§ 4. *Horizontal Force.*—Table III. gives particulars of the observations of horizontal force H. On some occasions the interval elapsing between the vibration and deflection experiments was a little long. In

Magnetic Observations of Scottish National Antarctic Expedition.



FIG. 1.—Taking of preliminary observations on the site of the future observatory on The Beach, Scotia Bay.

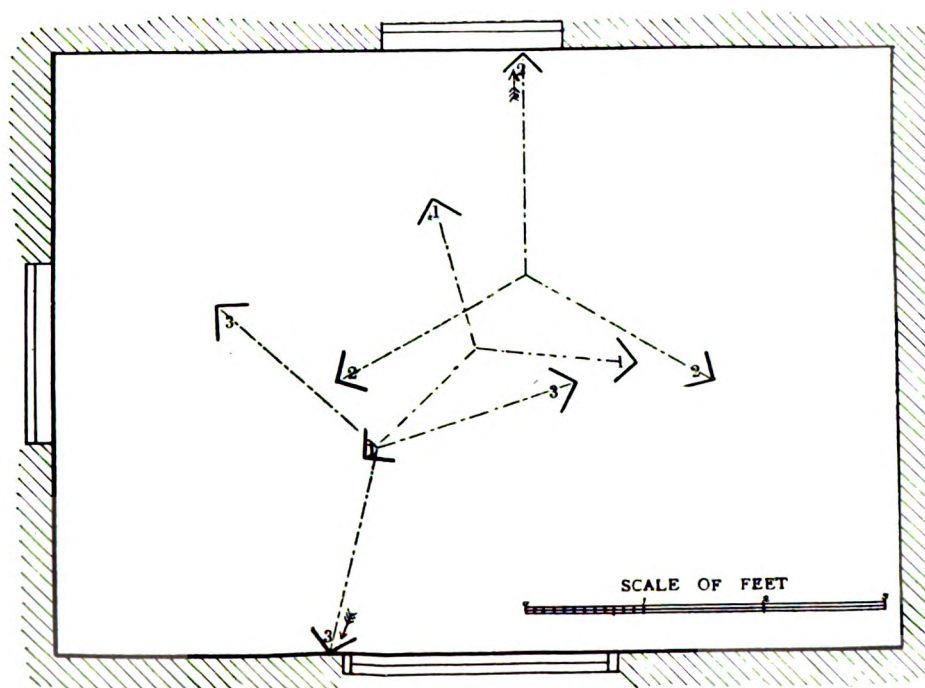


FIG. 2.—Plan showing positions of magnetic instruments inside Copeland Observatory when in use.

reducing the observations, a mean value was applied for P in the formula $2mr^{-3}(1 + Pr^{-2} \dots)$, expressing the deflecting force at distance r due to a magnet of moment m . In calculating this mean value, the observations of June 3, 9 and 15, July 4 and 22, and December 17, 1903, and that of January 26, 1904, were omitted, as the differences between the results from the two deflection distances (30 and 40 centims.) on these occasions were clearly abnormal. The table gives the values of H for each observation and the mean derived from the observations in each month; it also gives the values deduced from the individual observations for the magnetic moment, m , of the collimator magnet at 0° C . The small variability in the values deduced for m is a marked tribute to the care with which the observations were taken. Another gratifying feature is the constancy of m from beginning to end of the observations. Though in regular use for eight months, the magnet shows no certain loss of magnetic moment.

The observations were taken at somewhat variable hours. Afternoon hours prevailed, but the mean hour of observation would vary considerably for the different months. No direct observations were made of the diurnal change of horizontal force, and an attempt to get a general idea of its character by grouping the data according to the hour of observation led to results which were too irregular to inspire confidence. If the diurnal variation had been large, the method adopted could hardly have failed to indicate it clearly. The fact that the variations, whether regular or irregular, were not very large is fairly obvious from the observations themselves. If we omit the observation of June 3, which presented some abnormal features, individual values of H varied only from 0.25655 to 0.25754. A range of 99γ from 36 observations is not compatible with numerous large disturbances. We may conclude that whilst appreciable corrections, differing slightly from month to month, are probably required to reduce the monthly means in Table III. to the mean value for the 24 hours, the uncertainties are still comparatively small. The monthly means suggest, on the whole, that the horizontal force is decreasing, but no great weight attaches to this conclusion.

§ 5. *Diurnal Variation of Declination.*—Hourly readings were taken of the collimator magnet of the Unifilar Magnetometer, with scale erect, throughout four periods each of five days. The periods commenced and ended with midnight, their dates being December, 1903, 6 to 10 and 21 to 25, and January, 1904, 4 to 8 and 19 to 23. Throughout each period the setting of the azimuth circle remained unaltered, the observer simply noting the scale division of the magnet. Table IV. gives the hourly readings as recorded in scale divisions, 1 scale division representing an angle of $1'80$. The table also shows the ranges for each day, uncorrected for non-cyclic change, both in scale divisions and in minutes of arc, and, finally, the hours of occurrence of the principal maximum and minimum. There is one feature in Table IV. that will appeal to everyone familiar with magnetic data, and that is the remarkable absence of disturbance. During the whole twenty days the daily range did not fall below $5'9$ nor rise above $11'3$, the arithmetic mean derived from all the days being $8'7$, and this mean value being exceeded on nine of the twenty days. The hour of the principal maximum occurred once at noon and four times at 1 p.m.; on the other fifteen days it occurred either at 2 p.m. or 3 p.m. The hour of minimum was more variable, this turning point being seldom very clearly marked.

§ 6. Table V. shows the mean diurnal inequality derived from each five-day period, the results being uncorrected for non-cyclic change, and also the mean diurnal inequalities corrected for non-cyclic change for the ten December, the ten January, and the whole twenty days. The results are all in minutes of arc. The ranges and the hours of occurrence of the principal maximum and minimum are also recorded. The inequality for the whole twenty days was derived independently of those for the two ten-day periods, and the non-cyclic corrections to the three sets of figures were also applied independently. As the reductions were not carried beyond 0.01, there is naturally at some hours a difference between the twenty-day inequality and the arithmetic mean of the ten-day inequalities in the last figure retained.

The diurnal inequality for the whole twenty days is shown graphically in fig. 1, p. 315. For a curve based on only twenty days' observations it is, on the whole, extremely regular. There is clearly a little irregularity between 4 a.m. and 9 a.m. This arises from the variability in the hour of the minimum, which leads to the curve being abnormally flat. There is a nearly stationary part of the curve from 8 p.m. to 11 p.m., and possibly observations for individual months derived from a series of years might show a poorly developed secondary maximum and minimum, an hour or two apart, in the late evening.

§ 7. The "midsummer" diurnal inequality in Table V. was analysed in a Fourier series, the formula obtained being

$$2' \cdot 71 \sin(t + 213^\circ \cdot 3) + 1' \cdot 51 \sin(2t + 45^\circ \cdot 1) + 0' \cdot 55 \sin(3t + 183^\circ \cdot 8) + 0' \cdot 30 \sin(4t + 4^\circ \cdot 0).$$

Here t denotes time counted from local midnight, an hour being taken as equivalent to 15° .

The corresponding formula for summer (May to August) at Kew (lat. $51^\circ 28' \text{ N.}$) from an eleven-year period for *quiet* days was

$$3' \cdot 19 \sin(t + 214^\circ \cdot 8) + 2' \cdot 50 \sin(2t + 52^\circ \cdot 4) + 1' \cdot 01 \sin(3t + 241^\circ \cdot 4) + 0' \cdot 12 \sin(4t + 39^\circ \cdot 9).$$

The phase angles in the two cases differ but little, except in the case of the eight-hour term, and even there the difference represents less than one and one-third hours of time. The twelve-hour and eight-hour terms are less important relatively to the twenty-four hour term at Laurie Island than at Kew. Absolutely considered, the twenty-four, twelve and eight-hour terms are all smaller than at Kew.

§ 8. In considering the absolute size of the diurnal changes, it is fairer to compare Laurie Island with some northern station nearer its own latitude. Pawlowsk ($59^\circ 41' \text{ N. lat.}$) seems the most suitable. Taking arithmetic means from the "all" day results for June and July, 1903, at Pawlowsk, we have the following comparative data for midsummer :—

	Range from mean diurnal inequality.	Mean of daily ranges from hourly readings.
Laurie Island	7' 40	8' 65
Pawlowsk	10' 98	12' 21

According to these figures Pawlowsk has a regular diurnal inequality range 48 per cent. larger than that at Laurie Island, and individual daily ranges (from hourly readings) at the former station are on the average 41 per cent. larger than at the latter. The magnetic force, however, to which diurnal changes may be ascribed would seem to be fairly similar at the two places. The force required to cause a declination movement of $1'$ varies directly as the intensity of the horizontal force at the station, and the horizontal force at Laurie Island is about 55 per cent. larger than that at Pawlowsk.

§ 9. On the days preceding and succeeding each of the five-day periods, observations were taken of the bearing of the distant mark, and also of the circle reading, when the centre or some definite division of the magnet scale coincided with the vertical wire in the telescope. Assuming the mean from the two readings of the mark—allowance being made for its known azimuth—to represent the bearing of true north during the five-day period, and allowing for the difference between the centre (or other definite division) of the scale and the mean scale reading derived from all the hourly observations of the period, one obtains what would be the mean value of the declination for the period if there were no difference between the readings of the magnet with scale erect and inverted. Allowing suitably for the difference between the erect and inverted readings, one obtains the true declination, the diurnal variation being eliminated. The values thus obtained for the declination during the four five-day periods were as follows :—

Period.	Declination East.
December 6 to 10, 1903	$5^\circ 27' \cdot 7$
" 21 " 25, 1903	$5^\circ 26' \cdot 9$
January 4 " 8, 1904	$5^\circ 26' \cdot 5$
" 19 " 23, 1904	$5^\circ 25' \cdot 1$

The mean of the four, viz., $5^\circ 26' \cdot 6$, may be accepted as a close approximation to the true value of the declination at Laurie Island for the epoch January 1, 1904, always assuming that the value accepted for the azimuth of the distant mark was satisfactory.

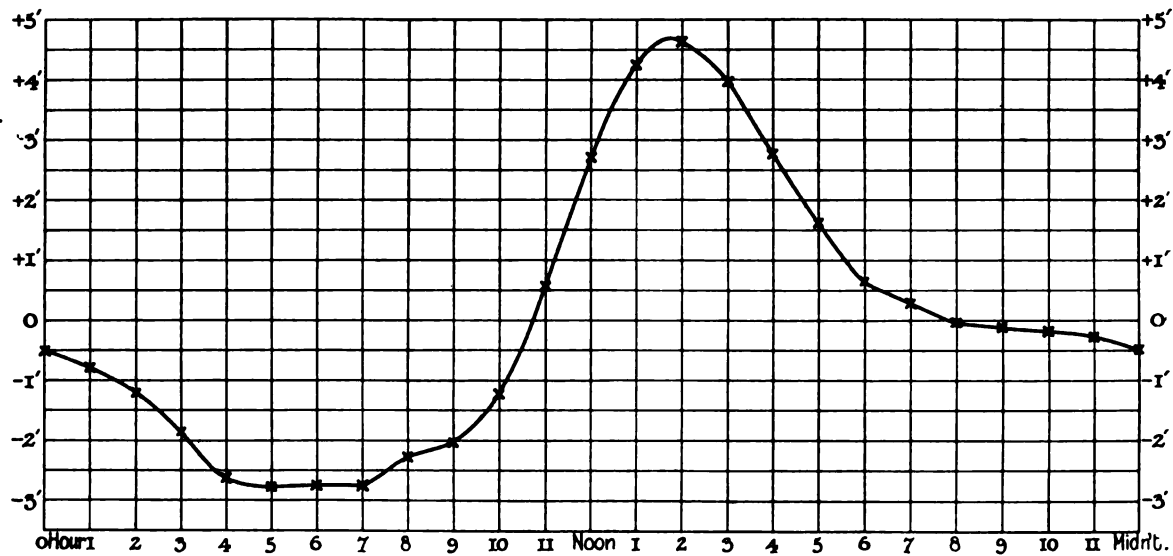


Fig. 1. Easterly declination, midsummer, at Laurie Island.—Diurnal inequality.

TABLE I.—Declination.

Date.	Hour.	Declination East.	Date.	Hour.	Declination East.
1903 May 23	h. m. 3 12 p.m.	5 27.6	1903 October 31	h. m. 7 22 p.m.	5 33.1
" 28	3 14 "	5 34.1	1903 November 2	h. m. 4 43 p.m.	5 32.8
" 29	1 51 "	5 33.9	" 11	4 30 "	5 31.0
" 29	2 35 "	5 33.1		Mean for November	5 31.9
" 29	2 59 "	5 33.0			
" 30	10 7 a.m.	5 35.6			
	Mean for May	5 32.9			
1903 June 4	h. m. 11 46 a.m.	5 33.9	1903 December 1	h. m. 3 51 p.m.	5 30.3
" 5	2 27 p.m.	5 34.9	" 2	5 38 "	5 25.6
" 10	12 10 "	5 34.2	" 4	3 3 "	5 32.0
(" 15	2 27 "	5 42.6)	" 11	2 40 "	5 29.3
	Mean for June	5 34.3	" 17	12 0 noon	5 30.1
			" 18	5 45 p.m.	5 27.8
			" 20	6 4 "	5 29.8
			" 28	4 24 "	5 27.6
			" 30	11 55 a.m.	5 31.0
				Mean for December	5 29.3
1903 (July 2	h. m. 2 15 p.m.	5 13.2)	1904 January 3	h. m. 10 18 a.m.	5 24.4
(" 3	2 38 "	5 12.7)	" 9	2 25 p.m.	5 33.7
(" 12	2 43 "	5 43.8)	" 18	3 14 "	5 28.1
" 18	11 9 a.m.	5 31.4	" 25	2 20 "	5 29.0
" 22	11 34 "	5 26.3		Mean for January	5 28.8
" 23	3 9 p.m.	5 31.9			
" 25	2 43 "	5 27.8			
" 26	9 43 a.m.	5 30.4			
" 29	3 18 p.m.	5 33.6			
	Mean for July	5 30.2			
1903 August 14	h. m. 3 34 p.m.	5 28.5	1904 February 11	h. m. 2 35 p.m.	5 29.7
" 18	2 14 "	5 33.2	" 13	11 35 a.m.	5 28.6
" 26	11 52 a.m.	5 35.3		Mean for February	5 29.2
	Mean for August	5 32.3			
1903 September 9	h. m. 5 32 p.m.	5 30.6			
" 10	4 25 "	5 29.2			
" 22	5 14 "	5 32.0			
" 24	3 12 "	5 30.3			
	Mean for September	5 30.5			
				Mean of monthly means	5 31.2

TABLE II.—Inclination (South).

Date.	Mean time.	Needle 1.	Needle 2.	Mean.	Monthly mean.
1903	h. m.	° '	° '	° '	° '
May 1	3 56 p.m.	54 30·8	—	54 31·1	} 54 32·1
" 3	11 18 a.m.	54 34·8	54 31·4	54 33·1	
June 6	2 48 p.m.	54 33·2	—	54 33·5	} 54 32·9
" 9	11 29 a.m.	54 36·7	54 33·8	54 35·3	
" 25	1 48 p.m.	54 28·4	54 31·1	54 29·8	
July 24	1 30 "	54 26·0	54 30·1	54 28·0	} 54 28·9
" 28	11 55 a.m.	54 30·6	—	54 30·9	
" 31	2 48 p.m.	54 27·6	54 27·8	54 27·7	
August 13	2 28 "	54 27·9	54 26·9	54 27·4	} 54 26·3
" 14	11 35 a.m.	54 27·0	54 24·9	54 26·0	
" 20	3 50 p.m.	54 25·3	—	54 25·6	
September 6	3 25 "	54 32·0	54 31·8	—	54 31·9
November 9	5 46 "	54 32·0	54 33·1	54 32·5	} 54 30·7
" 17	4 25 "	54 28·6	54 29·5	54 29·0	
December 2	12 7 "	54 28·8	54 32·0	54 30·4	} 54 31·5
" 4	5 38 "	54 30·6	54 32·9	54 31·8	
" 18	3 6 "	54 30·9	54 29·8	54 30·3	
" 30	5 22 "	54 31·9	54 35·1	54 33·5	
1904					
January 1	2 25 "	54 32·8	54 33·9	54 33·3	} 54 31·4
" 13	3 46 "	54 32·1	54 30·3	54 31·2	
" 26	4 1 "	54 30·0	54 31·5	54 30·7	
" 29	3 35 "	54 28·9	54 31·6	54 30·3	
February 6	3 58 "	54 30·0	54 29·5	54 29·8	} 54 29·5
" 12	11 15 a.m.	54 28·8	54 29·6	54 29·2	
Mean of monthly means					54 30·6

TABLE III.—Horizontal Force.

Date.	Mean time of		H.	m.	Monthly means, H.
	Vibration.	Deflection.			
1903	h. m.	h. m.			
May 28	10 36 a.m.	11 46 a.m.	0·25744	772·4	0·25744
June 3	3 34 p.m.	2 12 p.m.	0·25812	771·6	0·25726
" 4	2 7 "	3 45 "	0·25715	771·5	
" 5	2 4 "	11 50 a.m.	0·25677	771·3	
" 9	3 37 "	2 54 p.m.	0·25728	773·3	
" 12	11 52 a.m.	2 55 "	0·25718	771·3	
" 15	Not noted	12 11 "	0·25686	772·7	
" 26	11 41 a.m.	2 23 "	0·25737	772·6	
" 27	12 0 noon	2 21 "	0·25738	771·8	0·25719
July 4	11 55 a.m.	2 50 "	0·25706	771·3	
" 22	11 19 "	12 47 "	0·25744	772·6	
" 26	{ 10 42 "	2 16 "	0·25706	770·8	
	{ 11 3 "				0·25699
August 15	2 35 p.m.	3 24 "	0·25686	771·8	
" 17	3 49 "	3 7 "	0·25725	771·8	
" 18	1 57 "	4 1 "	0·25698	771·0	
" 19	3 10 "	11 27 a.m.	0·25710	771·9	
" 26	2 14 "	3 22 p.m.	0·25674	770·8	0·25708
September 10	4 17 "	3 38 "	0·25689	771·0	
" 12	3 44 "	2 59 "	0·25692	771·4	
" 24	3 39 "	5 40 "	0·25754	773·3	
" 24	4 36 "	5 40 "	0·25696	771·6	0·25672
November 2	5 46 "	8 13 "	0·25678	771·3	
" 11	12 22 "	11 15 a.m.	0·25658	772·4	
" 19	10 44 a.m.	12 22 p.m.	0·25682	772·4	
" 30	3 22 p.m.	3 50 "	0·25671	771·5	0·25699
December 2	5 20 "	4 12 "	0·25700	771·2	
" 4	2 47 "	4 0 "	0·25710	772·0	
" 17	3 26 "	4 49 "	0·25681	772·0	
" 18	5 31 "	4 55 "	0·25699	772·0	
" 30	11 20 a.m.	2 18 "	0·25704	771·9	0·25697
1904					
January 1	3 32 p.m.	4 59 "	0·25702	772·0	
" 13	10 57 a.m.	12 12 "	0·25691	771·9	
" 26	1 56 p.m.	12 14 "	0·25738	770·7	0·25671
" 29	10 46 a.m.	12 18 "	0·25655	771·1	
February 6	7 7 p.m.	6 12 "	0·25668	772·0	0·25671
" 12	3 51 "	3 2 "	0·25673	771·2	
Mean of monthly means					0·25704

TABLE IV.—Hourly Readings of Declination (in Scale Divisions).

Day.	Forenoon.												Afternoon.												Time of maximum hourly reading.	Time of minimum hourly reading.		
	Mid-night, Oh.	1h.	2h.	3h.	4h.	5h.	6h.	7h.	8h.	9h.	10h.	11h.	Noon.	1h.	2h.	3h.	4h.	5h.	6h.	7h.	8h.	9h.	10h.	11h.			Mid-night.	Range.
1903																												
December 6. . .	42.5	41.8	41.1	41.1	41.2	40.8	40.9	40.8	41.0	41.9	42.3	43.8	44.8	45.0	45.0	45.1	44.9	43.8	42.9	42.1	41.2	40.9	41.0	41.6	41.8	4.3	7.7	a.m. 7
" 7. . .	41.8	41.7	41.1	40.0	39.6	39.2	38.9	39.0	39.2	40.1	41.1	42.9	43.8	45.2	45.1	44.0	43.4	42.9	42.0	42.3	42.2	42.1	42.0	41.9	41.7	6.3	11.3	1
" 8. . .	41.7	41.7	40.9	40.6	40.0	39.9	40.4	40.7	41.4	41.5	42.1	42.7	43.4	44.5	45.0	44.8	44.2	43.3	42.5	42.1	41.9	41.9	41.6	41.5	41.2	5.1	9.2	2
" 9. . .	41.2	41.3	41.1	40.9	40.2	39.8	40.0	40.3	40.9	41.0	41.6	42.3	43.1	43.8	44.1	44.4	43.7	43.0	42.5	42.2	42.1	41.9	41.8	41.9	41.7	4.6	8.3	3
" 10. . .	41.7	41.3	41.0	40.3	40.1	40.3	40.1	40.0	40.3	40.8	41.1	41.7	42.1	42.3	44.2	44.7	44.1	43.9	43.1	42.5	42.6	42.5	42.3	42.1	41.9	4.7	8.5	3
December 21. . .	40.0	39.8	38.4	38.1	38.4	39.5	39.6	38.8	39.3	40.8	41.5	42.2	42.6	43.0	43.2	43.1	42.7	41.9	41.5	42.1	41.8	41.5	41.4	42.1	41.9	5.1	9.2	2
" 22. . .	41.9	41.8	41.6	41.1	40.9	40.2	40.4	40.9	41.7	42.3	42.8	43.2	43.9	44.2	45.1	45.2	44.0	43.2	42.5	42.9	42.7	42.7	42.8	42.5	41.8	5.0	9.0	3
" 23. . .	41.8	41.3	41.5	41.0	40.2	39.8	40.0	40.2	41.4	41.3	42.0	42.2	42.8	43.1	43.6	43.1	43.0	42.5	41.8	42.1	42.0	41.8	42.0	41.9	41.6	3.8	6.8	2
" 24. . .	41.6	41.7	41.6	41.8	41.0	40.9	40.2	40.1	40.4	41.0	41.6	42.8	43.4	43.9	43.8	43.2	42.8	42.6	42.3	42.3	42.2	42.1	42.0	41.9	41.9	3.8	6.8	1
" 25. . .	41.9	41.5	41.5	40.7	40.2	40.1	39.8	40.0	40.1	40.6	41.1	41.8	42.6	42.8	43.1	42.6	42.4	42.6	42.2	42.2	41.9	41.4	41.1	41.3	40.7	3.3	5.9	2
1904																												
January 4. . .	39.8	39.9	39.9	39.5	39.9	39.5	39.2	39.3	40.1	40.3	40.5	41.8	43.3	44.8	44.1	43.8	41.9	40.5	40.1	40.2	40.5	40.1	40.0	40.0	40.0	5.6	10.1	1
" 5. . .	40.0	40.0	40.1	39.2	38.5	38.4	38.7	39.2	39.8	39.4	40.3	42.9	44.6	44.0	43.7	43.1	41.8	40.7	40.5	40.2	39.5	40.2	40.5	40.2	40.2	6.2	11.2	0
" 6. . .	40.2	40.1	40.0	39.6	39.0	39.2	39.5	40.0	40.1	40.0	39.8	40.9	42.1	43.6	44.3	43.1	42.0	41.9	41.2	40.5	40.0	40.1	40.0	39.9	40.0	5.3	9.5	2
" 7. . .	40.0	40.0	40.0	39.9	39.3	39.1	39.0	39.0	39.3	39.0	39.0	40.2	41.9	43.5	43.6	42.8	41.6	41.0	40.9	40.3	40.1	40.1	40.1	39.7	40.1	4.6	8.3	2
" 8. . .	40.1	40.4	39.9	39.9	39.3	39.3	39.8	39.2	39.0	38.5	38.4	39.3	41.1	42.7	43.0	42.5	41.9	41.3	41.5	41.2	40.8	41.0	40.6	40.8	40.7	4.6	8.3	2
January 19. . .	40.0	39.5	39.6	39.4	39.3	39.0	39.1	39.1	39.6	37.9	38.0	38.9	40.3	41.8	42.0	41.7	41.2	40.6	39.9	39.9	40.0	39.9	40.0	39.8	39.6	4.1	7.4	2
" 20. . .	39.6	39.5	39.5	39.3	39.2	39.2	38.9	38.3	37.8	37.9	38.7	40.1	42.1	43.1	43.1	43.3	42.5	41.3	40.4	40.2	40.6	40.8	40.7	40.4	40.2	5.5	9.9	3
" 21. . .	40.2	40.0	39.7	38.9	37.8	38.0	38.0	38.2	38.9	38.9	39.7	40.9	42.9	44.0	43.7	42.8	42.3	42.2	41.5	41.0	41.3	41.0	40.9	40.1	40.4	6.2	11.2	1
" 22. . .	40.4	40.2	40.5	40.7	39.7	40.3	40.8	40.6	39.9	39.1	39.7	40.2	42.0	43.5	42.9	42.4	42.0	41.5	41.1	40.9	40.8	41.0	41.2	41.0	40.9	3.8	6.8	2
" 23. . .	40.9	40.7	40.8	40.5	40.1	39.9	39.4	39.1	39.3	38.6	38.8	39.7	41.2	42.2	42.7	42.8	42.4	41.7	40.9	40.2	39.9	40.3	40.3	40.8	40.8	4.2	7.6	3

TABLE V.—Diurnal Inequalities (in Minutes of Arc, + to East).

Period.	Forenoon.												Afternoon.												Range.	Time of maximum hourly reading.	Time of minimum hourly reading.	
	Mid-night, Oh.	1h.	2h.	3h.	4h.	5h.	6h.	7h.	8h.	9h.	10h.	11h.	Noon.	1h.	2h.	3h.	4h.	5h.	6h.	7h.	8h.	9h.	10h.	11h.				Mid-night.
Inequality Uncorrected for Non-cyclic Change.																												
December 6 to 10	-0.40	-0.79	-1.73	-2.56	-3.20	-3.90	-3.49	-3.31	-2.59	-1.99	-0.58	+1.22	+2.59	+4.26	+4.82	+4.68	+3.71	+2.48	+1.08	+0.43	0.00	-0.25	-0.47	-0.36	-0.61	8.42	2	5
" 21 ,, 25	-0.54	-0.94	-1.48	-2.16	-2.88	-2.95	-3.13	-3.13	-2.09	-0.97	+0.11	+1.26	+2.38	+2.99	+3.64	+3.06	+2.23	+1.48	+0.58	+1.04	+0.68	+0.29	+0.22	+0.36	-0.29	6.77	2	6
January 4 ,, 8	-1.06	-0.95	-1.13	-1.78	-2.54	-2.72	-2.43	-2.29	-1.71	-2.00	-1.82	+0.74	+3.58	+5.90	+5.63	+4.41	+2.21	+0.85	+0.41	-0.23	-0.77	-0.56	-0.67	-0.88	-0.74	8.35	2	5
" 19 ,, 23	-0.36	-0.79	-0.72	-1.19	-2.16	-2.05	-2.12	-2.45	-2.74	-3.49	-2.59	-0.83	+2.30	+4.14	+4.43	+3.92	+2.99	+1.87	+0.61	+0.04	+0.18	+0.32	+0.36	0.00	-0.07	7.92	2	9
Inequality Corrected for Non-cyclic Change.																												
December	-	-0.85	-1.60	-2.35	-3.03	-3.27	-3.31	-3.22	-2.74	-1.33	-0.23	+1.24	+2.49	+3.62	+4.23	+3.97	+2.97	+1.96	+0.83	+0.73	+0.33	+0.01	-0.13	-0.01	-0.46	7.54	2	6
January	-	-0.73	-0.81	-1.38	-2.25	-2.30	-2.20	-2.31	-2.18	-2.70	-2.18	-0.04	+2.94	+4.86	+5.00	+4.12	+2.55	+1.30	+0.44	-0.18	-0.40	-0.23	-0.28	-0.58	-0.54	7.70	2	9
Midsummer	-	-0.79	-1.21	-1.87	-2.65	-2.79	-2.75	-2.75	-2.27	-2.02	-1.21	+0.59	+2.72	+4.26	+4.81	+4.00	+2.77	+1.64	+0.83	+0.29	-0.04	-0.11	-0.20	-0.36	-0.40	7.40	2	5

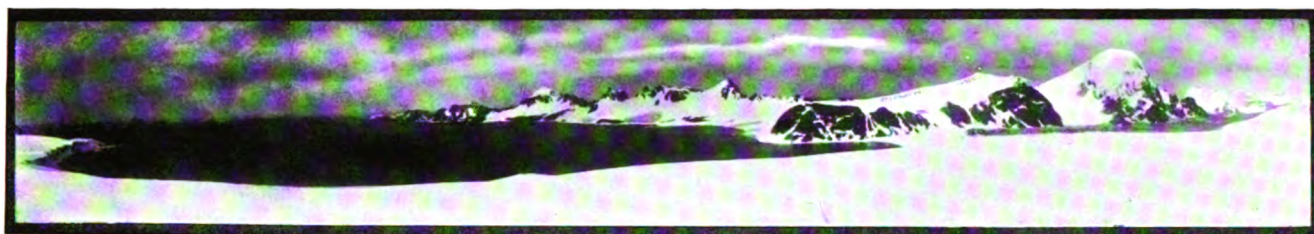
Inequality Uncorrected for Non-cyclic Change.

Inequality Corrected for Non-cyclic Change.

Magnetic Observations of Scottish National Antarctic Expedition.



Scotia Bay, showing Autumnal Break-up of Ice, and heavy Stratus Clouds.

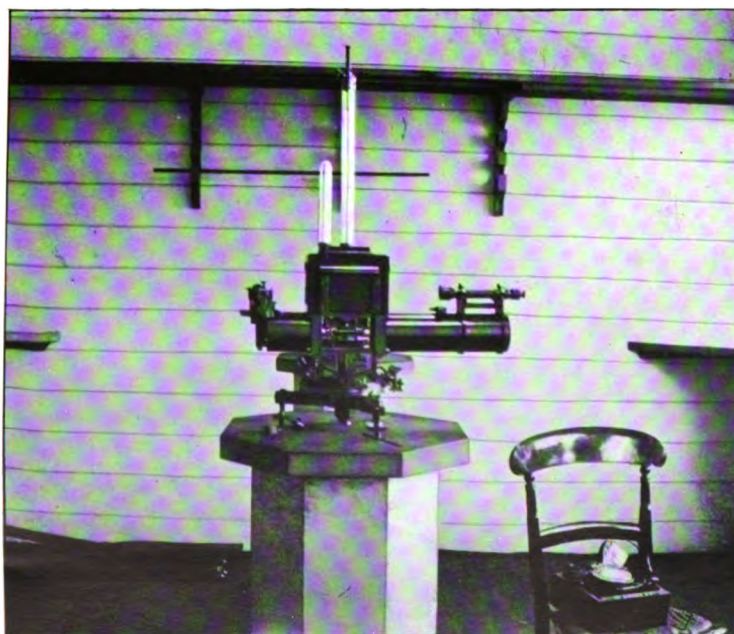


Scotia Bay.

The Beach.

Jessie Bay.

Panoramic View, showing Scotia Bay and Jessie Bay, divided from each other by a narrow neck of beach—The Beach, where the Meteorological and Magnetical Observatories were situated.



The Magnetometer.

PART III.—TIDES.

TIDAL OBSERVATIONS

MADE DURING THE

VOYAGE OF THE SCOTIA, 1902-1904.

I. ANALYSIS OF THE OBSERVATIONS.

The anchorage at which the tidal observations here dealt with were taken was at the head of Scotia Bay, Laurie Island, South Orkneys, in latitude $60^{\circ} 43' 42''$ S., longitude $44^{\circ} 38' 33''$ W. The bay is about 3 miles deep and faces S.E.; the depth of water at the anchorage was 10 fathoms, increasing to about 100 fathoms at the mouth of the bay. Here the "Scotia" was frozen in from March 25 to November 23, 1903.

The apparatus used consisted of a long wire fixed to the sea bottom by means of a heavy weight. The wire was carried over a davit by means of a pulley. At the extremity of the wire was another lighter weight, which rose and fell with the tide along a graduated wooden scale. The floe in which the "Scotia" was frozen moved with the tide, the height of which was thus shown by the position of the movable weight. The observations were made by the leader, officers, and staff of the Expedition under the direction of Captain THOMAS ROBERTSON.

The period covered by the observations is from 10.30 a.m., May 26, 1903, to midnight on October 16 of the same year. On September 4 the wire broke and had to be replaced, and at this point there may be a discontinuity of zero. The observations for the last month have accordingly been treated as a distinct series.

The observations recorded give the height of the tide at every half-hour from May 26 to September 4, and at every hour from September 5 to October 16. Records of the barometric pressure and of the strength and direction of the wind are also available. On May 26 the height of the tide was noted every 5 minutes from 5.45 a.m. to 9 a.m.

In analysing the observations hourly heights were used, commencing for the first three months from 1 a.m. on May 26, 1903 (13 h. May 25, local mean time). The harmonic components for which an analysis was carried out were M_2 , O , N_2 , S_2 , K_2 , K_1 , P .

For the first three components named the method of analysis was that used for the Indian Tides, and described in the 'B.A. Report' for 1883. The periods chosen were 86 M days, 89 O days and 78 N days, these periods being selected to minimise the effects of the S_2 , K_1 , and M_2 components respectively, and to be as large as the first series of observations permitted.

For the components S_2 and K_2 and K_1 and P the process employed was essentially that given by (Sir) G. H. DARWIN in the 'R.S. Proceedings,' vol. LII (1893), p. 365, where a method is indicated for dealing with a short series of observations extending over a few months. In analysing for K_1 and P , however, 27 days' observations in each month were employed instead of 30. [See Article by (Sir) G. H. DARWIN in Appendix to 'B.A. Report' for 1886.] Each month's observations were separately analysed and the means formed as recommended on p. 367 of the paper referred to above.

The most important feature of the method, in regard to the results of the analysis tabulated below, is that the ratios of the amplitudes of S_2 and K_2 , and of K_1 and P respectively are assumed to have their theoretical values, and that the "lags," in the case of each pair of components having nearly equal speeds,

are taken to be the same. That in this instance this theoretical assumption is in sufficiently close agreement with the facts may be regarded as established by the results of the analysis.

The values of the tidal constants obtained from the analysis are given in the subjoined table, H denoting the semi-range or amplitude (in feet) and κ the epoch or "lag" of a component:—

	M_2	O	S_2	K_2	K_1	P	N
1st month $\left\{ \begin{array}{l} H \\ \kappa \end{array} \right.$			$\left\{ \begin{array}{l} 0.897 \\ 200^\circ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 0.244 \\ 200^\circ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 0.446 \\ 16^\circ 8 \end{array} \right.$	$\left\{ \begin{array}{l} 0.149 \\ 16^\circ 8 \end{array} \right.$	
2nd month $\left\{ \begin{array}{l} H \\ \kappa \end{array} \right.$	$\left\{ \begin{array}{l} 1.518 \\ 172^\circ 3 \end{array} \right.$	$\left\{ \begin{array}{l} 0.564 \\ 357^\circ 7 \end{array} \right.$	$\left\{ \begin{array}{l} 0.892 \\ 198^\circ 4 \end{array} \right.$	$\left\{ \begin{array}{l} 0.243 \\ 198^\circ 4 \end{array} \right.$	$\left\{ \begin{array}{l} 0.487 \\ 11^\circ 3 \end{array} \right.$	$\left\{ \begin{array}{l} 0.162 \\ 11^\circ 3 \end{array} \right.$	$\left\{ \begin{array}{l} 0.298 \\ 153^\circ 5 \end{array} \right.$
3rd month $\left\{ \begin{array}{l} H \\ \kappa \end{array} \right.$			$\left\{ \begin{array}{l} 0.953 \\ 197^\circ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 0.260 \\ 197^\circ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 0.473 \\ 13^\circ 8 \end{array} \right.$	$\left\{ \begin{array}{l} 0.158 \\ 13^\circ 8 \end{array} \right.$	
4th month $\left\{ \begin{array}{l} H \\ \kappa \end{array} \right.$	$\left\{ \begin{array}{l} 1.537 \\ 172^\circ 1 \end{array} \right.$	$\left\{ \begin{array}{l} 0.543 \\ 3^\circ 1 \end{array} \right.$	$\left\{ \begin{array}{l} 0.907 \\ 194^\circ 7 \end{array} \right.$	$\left\{ \begin{array}{l} 0.247 \\ 194^\circ 7 \end{array} \right.$	$\left\{ \begin{array}{l} 0.522 \\ 16^\circ 5 \end{array} \right.$	$\left\{ \begin{array}{l} 0.174 \\ 16^\circ 5 \end{array} \right.$	$\left\{ \begin{array}{l} — \\ — \end{array} \right.$
Mean H	1.522	0.558	0.912	0.249	0.482	0.161	0.298
Values κ	172° 3	359° 0	197° 8	197° 8	14° 6	14° 6	153° 5

The agreement between the values of the constants in successive months is as close as can be expected and may be regarded as quite satisfactory.

The zero readings (mean sea-level) for the successive months were found to be 4.37, 3.61, 3.90, 3.00 feet respectively. In regard to the last value, it should be remembered that this belongs to the period following the breaking of the wire. It would seem certain that there was an irregular change of zero due to shifting of the ship's position in the ice, consumption of coal, &c., and that from these values there is nothing to be inferred.

As a check on the analysis the initial values for the various components obtained were calculated for 0 h., June 1, 1903, and, with the aid of the Indian tide-predicting machine in the charge of the National Physical Laboratory, a curve was run off for the two months June and July. The observed heights for the five days beginning 0 h., July 3, 1903 (astronomical time), have been plotted for comparison with the curve given by the machine. The two curves are shown in the diagram on p. 323 opposite. The curve obtained from the observations, where distinguishable from the machine curve, is indicated by a broken line. Crosses mark the observed points. The mean sea-level for the "observation" curve is that given by the mean of the five days' heights.

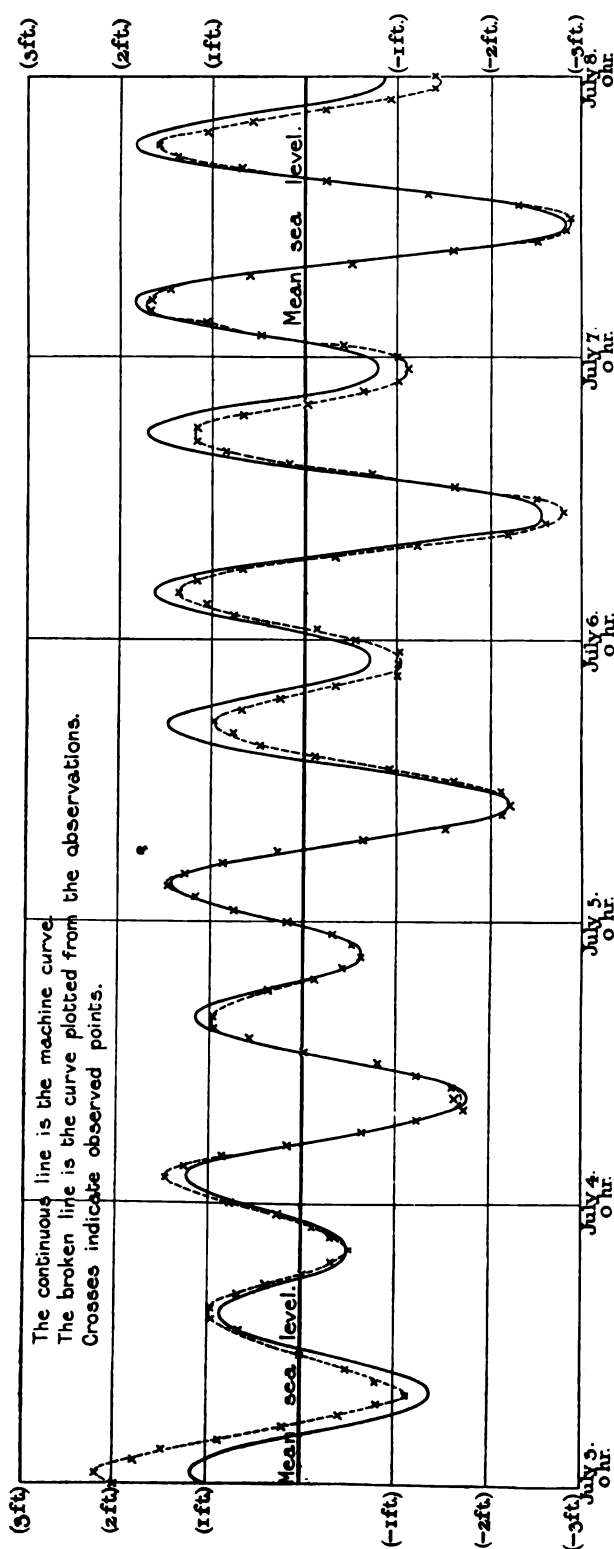
The agreement over these five days is sufficiently close. It may be noted that where the two curves separate they could in each case be brought much nearer to coincidence by a change of zero, as distinct from the addition of another harmonic term, and that such change of zero, as already pointed out, is to be expected.

The differences between the observed heights and the machine heights were also obtained for every hour on the following days: June 4, June 19, July 1, July 11, and July 24. The zero in each case is arbitrary, but if the analysis were accurate and complete the difference should be constant. The actual differences on these five days, however, would appear to indicate a variation having an approximate amplitude of 5 inches, and possibly of approximately diurnal period. This is not apparent in the comparison curves, and further investigation would be necessary before any conclusion could be arrived at in regard to it.

With reference to the wind records, there is nothing calling for any special comment in connection with the tides. It is clear that the winds have not sensibly impaired the value of the observations, which would appear to have been taken with great care, and have been found quite satisfactory for the purpose of analysis.

December 20, 1906.

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Comparison of the curve given by the tide-predicting machine with the curve plotted from the actual observations for the 5 days from July 3, 0 h., to July 7, 24 h., 1903.

II. DISCUSSION OF THE PRECEDING RESULTS.

The tides seem to be normal for a place in the Southern Ocean. The semi-diurnal tides are considerable, but the solar tide is unusually large compared with the lunar tide, the ratio being $\frac{3}{5}$, or 0.6, as compared with 0.465 of the equilibrium theory. The semi-diurnal tides are almost exactly "inverted," so that low water occurs very nearly when the moon is on the meridian.

The "age of the tide," or the mean interval from full and change of moon to springs, is $(197^{\circ} \cdot 8 - 172^{\circ} \cdot 3) \div 1^{\circ} \cdot 016$ hours, or 25 hours. This is a normal result, for the ages at Madras, Bombay, and Karachi are 29 hours, 32 hours, and $27\frac{1}{2}$ hours, respectively.

The diurnal tides are well marked, as might be expected; and it is interesting to note that they are "direct" and almost exactly in the phase indicated by the equilibrium theory. The age of the diurnal inequality may be defined as the mean interval which occurs after the moon has attained her maximum declination before the diurnal tide reaches its maximum. This is given by the excess of κ for K_1 over κ for O , divided by twice the moon's mean motion. Thus, in the present case, the age is $\{14^{\circ} \cdot 6 - (-1^{\circ} \cdot 0)\} \div 1^{\circ} \cdot 098$ hours, or $14\frac{1}{4}$ hours. There does not seem to be any prevalent rule as to this "age" in India, for whereas at Madras the corresponding period is 14 hours, at Bombay and Karachi this retardation is replaced by a small acceleration.

These results are very valuable, as relating to the only ocean uninterrupted by land throughout the whole circumference of the globe, yet in themselves they do not seem to present any features of special interest. But they do acquire much importance when considered in connection with the very abnormal results obtained by the "Discovery," which I hope to discuss in the volumes to be devoted to the scientific work of that expedition.

I wish to use the present opportunity of drawing attention to a mistake which was made in the article on Tides in the 'Admiralty Scientific Manual.' It was discovered by Mr. SELBY when he came to apply the methods of that article to these reductions. The mistake occurs in the 'British Association Report' for 1886, referred to above by Mr. SELBY, and was carried on into the Manual. The principle of the method was given correctly in my paper in the 'Proceedings of the Royal Society' for 1893, vol. 52, p. 365, but certain small changes are needed for applying the method to the case in point.

I hope to correct the mistake in vol. 1 of my Collected Papers, which are to be published by the Cambridge University Press, but it may suffice here merely to correct the errata in the Manual as follows:—

At p. 63,—*For the tides K_2 and S.* In the formula for $\tan \psi$, in the denominator, for $3 \cdot 67$ p, read $3 \cdot 71$ p, for a fortnight's observation, and $3 \cdot 84$ p, for a month's observation. In the formula for H_p , wherever $3 \cdot 67$ occurs, read $3 \cdot 71$ for a fortnight, and $3 \cdot 84$ for a month's observation. The formula $H'' = \frac{1}{3 \cdot 67} H_p$ remains correct.

For the tides K_1 and P. In the formula for H' the 3 in the numerator (but not that in the denominator) should be replaced by $3 \cdot 007$ for a fortnight's observation, or by $3 \cdot 027$ for a month's observation. The formula $H_p = \frac{1}{3} H'$ remains correct.

For $\kappa' = \kappa_p = \zeta' + V' + \phi$ read

$\kappa' = \kappa_p = \zeta' + V' + \phi + 6^{\circ} \cdot 88$ for a fortnight, and $\kappa' = \kappa_p = \zeta' + V' + \phi + 13^{\circ} \cdot 29$ for a month.

The succeeding numerical example must be corrected accordingly. The only sensible change is that $\kappa' = \kappa_p = 334^{\circ}$ in place of 327° .

G. H. DARWIN.

December, 1906.



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